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# CORPORATION OF RANGOON.

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## ANNUAL REPORT OF THE HEALTH OFFICER

For the City of Rangoon

For the year 1931.

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THE RANGOON TIMES PRESS.



221



*With the Compliments  
of the  
Health Officer.*

the Committee of the  
H. R.

on H.

the H. R.

To

THE COMMISSIONER,  
CORPORATION OF RANGOON.

SIR,

I have the honour to submit my Annual Report on the Sanitary Administration of the City of Rangoon for the year 1931 and the Vaccination Report for the official year 1931-32, together with the reports of the Medical Officer, Contagious Diseases and Observation Hospitals, and the Analyst's report on the working of the Laboratory for the year 1931.

I have the honour to be,

SIR,

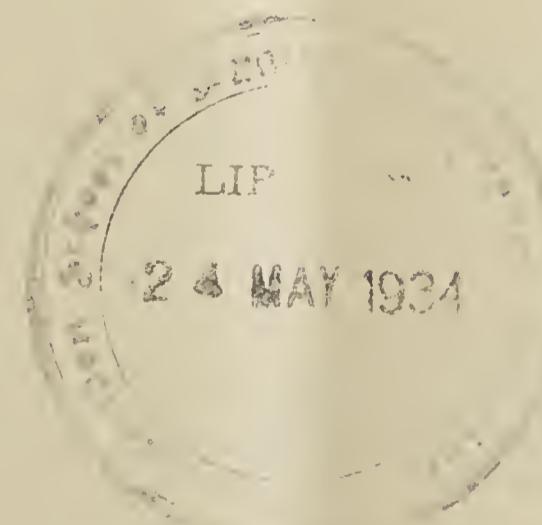
Your most obedient servant,

J. HORMASJI, D.P.H.,

HEALTH OFFICER,

*Corporation of Rangoon.*

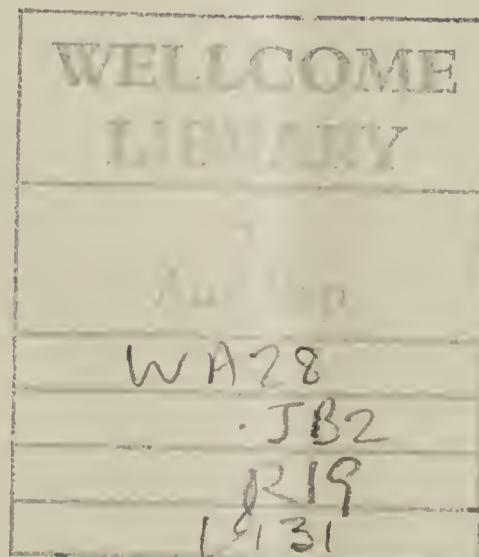
HEALTH OFFICE : }  
The 27th May, 1932. }



## INDEX.

PAGE.

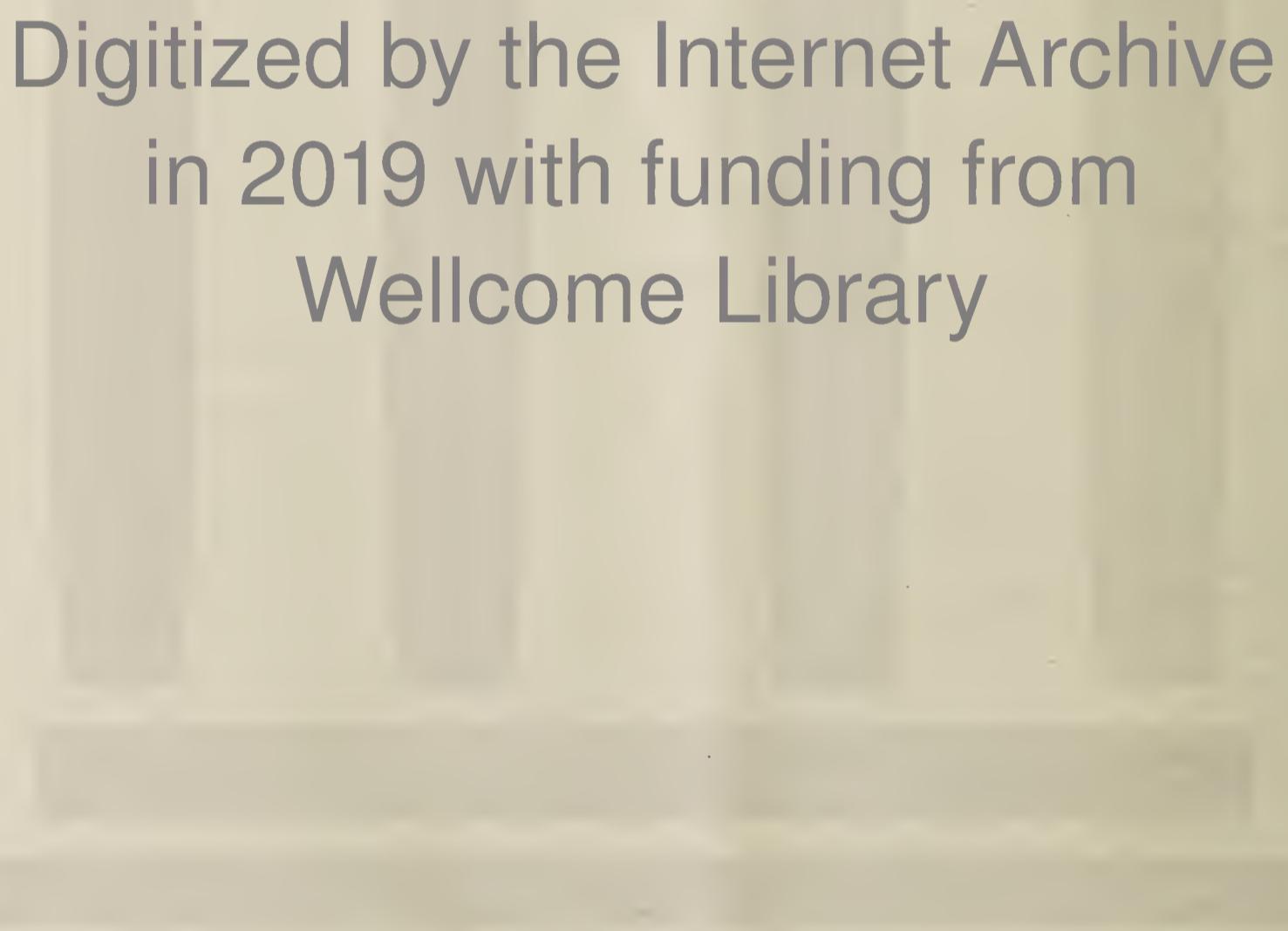
1. Summary of Statistics for the year 1931	...	...	...	...	...
2. Public Health Report for the year 1931	...	...	...	...	1
3. Vaccination Report for the year 1931-32	...	...	...	...	28
4. Contagious Diseases Hospital Report for the year 1931	...	...	...	...	35
5. Observation Hospital Report for the year 1931	...	...	...	...	51
6. Laboratory Report for the year 1931	...	...	...	...	55
7. Meteorological Data	...	...	...	...	65
8. Vital Statistics	...	...	...	...	66



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## TABLE OF CONTENTS.

	PAGE.
Summary of Statistics	...
Climatic Conditions ...	1
Area and Population	1
Births and Birth-rates	1
Still-births	2
Deaths and Death-rates	3
Infantile Mortality ...	4
Maternity and Infant Welfare Clinics	7
Cholera ...	9
Small-pox	9
Measles ...	11
Chicken-pox	11
Plague ...	12
Enteric Fever	14
Cerebro-Spinal Meningitis	14
Diphtheria	14
Puerperal Septicaemia	14
Malarial Fever	14
Influenza...	15
Diarrhoea and Dysentery	15
Tuberculosis	15
Respiratory Diseases (excluding Phthisis) ...	16
Cancer ...	16
Beri-Beri...	17
Kala-Azar	18
Contagious Diseases and Observation Hospitals	18
Medical Relief ...	19
Medical inspection of Municipal School Students	19
Medical Examination of Rickshaw-Pullers...	20
Markets ...	21
Ambulances	21
Laboratory	22
Jerked Meat	22
Unwholesome Foodstuff destroyed	22
Ghee samples	22
Eating Houses and Tea-shops ...	22
Wash House	22
Burial Grounds	22
Hiles ...	22
Extension of Municipal Water Supply	23
Extension of Sewerage System	23
Registered Buildings	23
Registration Depôts	26
Summary of work done	26
Statement of work done by Lady Health Visitors, Nurse-Midwives and Vaccinators ...	27
Comparative Summary of the work of Vaccination and Sanitary Sections for the years 1922—31	27
Revenue Received ...	27
Cleansing Department	28
Vaccination Report ...	28
Personnel of the Health Department	30



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**SUMMARY OF STATISTICS  
FOR THE YEAR 1931.**

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Population by the Census of 1931 ...	...	...	...	400,415
Area of the City of Rangoon	...	...	...	30·40 sq. miles.
Number of live births registered ...	...	...	...	8,561
Birth-rate per 1,000 Census Population	...	...	...	21·38
Number of deaths ...	...	...	...	9,409
Death-rate per 1,000 Census Population	...	...	...	23·50
Number of deaths amongst infants under one year	...	...	...	2,381
Infant death-rate per 1,000 births...	...	...	...	278·12
Plague—Number of deaths from ...	...	...	...	14
,, Death-rate ...	...	...	...	0·03
Small-pox—Number of deaths from	...	...	...	20
,, Death-rate ...	...	...	...	0·05
Cholera—Number of deaths from ...	...	...	...	19
,, Death-rate ...	...	...	...	0·02
Influenza—Number of deaths from	...	...	...	9
,, Death-rate ...	...	...	...	0·02
Tuberculosis—Number of deaths from	...	...	...	777
,, Death-rate ...	...	...	...	1·94
Respiratory Diseases—Number of deaths from	...	...	...	2,198
,, Death-rate ...	...	...	...	5·49
Cerebro-Spinal Fever—Number of deaths from	...	...	...	2
,, Death-rate ...	...	...	...	0·005
Beri-Beri — Number of deaths from	...	...	...	74
,, Death-rate ...	...	...	...	0·18
Diphtheria—Number of deaths from	...	...	...	4
,, Death-rate ...	...	...	...	0·01
Cancer—Number of deaths from ...	...	...	...	41
,, Death-rate ...	...	...	...	0·12
Puerperal Septicaemia—Number of deaths from	...	...	...	18
,, Death-rate ...	...	...	...	0·04



ANNUAL  
PUBLIC HEALTH REPORT  
OF THE  
CITY OF RANGOON

*For the year 1931.*

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**Climatic Conditions.**

Details of Meteorological data for the City of Rangoon are given in the Statement attached to this Report.

The total rainfall amounted to 122·73 inches showing 16·52 inches higher than the average for the previous five years and 11·80 inches higher than the rainfall in 1930.

**Area and Population.**

The area of the City is 30·40 square miles including the Rangoon and Pegu Rivers and the Pazundaung Creek.

The population at the Census of 1931 numbered 400,415, a decennial increase of 54,910. In calculating birth and death rates by circles, the Census population of 1921 has been used as the new Census population is not available according to the existing Registration Circles, the population having been taken according to Revenue Circles of the City. With effect from the 1st January 1932 the Revenue Circles have been adopted for the purpose of registration of births and deaths and the Vital Statistics will be compiled accordingly in future.

**Births and Birth-rates.**

The number of births registered as occurring in the City was 8,561 of which 4,329 were males and 4,232 females as compared with 7,974 (4,002 males and 3,972 females) in 1930.

The birth-rates for the years 1931 and 1930 on the Census Population of 1931 and 1921 respectively were 21·38 and 23·08. The highest birth-rate was recorded in the Newly Added Area, namely, 56·45 while the lowest was in Cantonment, namely, 7·42.

Male births exceeded female births in the proportion of 102·29 to 100.

The following Table gives the number of births and birth-rates for the various Communities :—

<b>Communities.</b>	<b>Number of births.</b>	<b>Birth-rates on 1921 Census Population.</b>
Burmese	... 3,277	... 31·05
Hindus	... 2,818	... 22·43
Mohammedans and Malays	1,121	... 18·06
Chinese and Panthays	... 659	... 27·33
Anglo-Indians	... 299	... 35·93
Europeans	... 59	... 14·98
Other Classes	... 328	... 20·61

The following statement gives the birth-rates in different Circles per 1,000 female population (Census 1921) at the child-bearing period between the ages of 15 and 45 for the years 1930 and 1931 :—

<b>Circles.</b>	<b>1931.</b>	<b>1930.</b>
Newly Added Area	... 242	235
Dalla	... 192	160
Tamwe	... 191	146
South Kemmendine	... 190	189
Kanaungto	... 180	134
North Kemmendine	... 161	152
Theinbyu	... 150	144
Botataung	... 147	169
Nort-West Town	... 133	119
Yegyaw	... 131	101
South-West Town	... 130	157
South-East Town	... 122	155
North-East Town	... 119	89
Lanmadaw	... 112	112
Taroktan	... 96	115
Cantonment	... 45	39

### **Still-births.**

676 Still-births were recorded during the year. 313 of these were of Burmese parentage, 204 of Hindu parentage, 87 of Mohammedan and Malay

parentage, 38 of Chinese and Panthay parentage, 11 of Other Classes (including 1 death of which race was unknown), 20 of Anglo-Indian parentage and 3 of European parentage.

The percentage of Still-births to the total births of the different Communities works out as follows:—

	<b>Number of births.</b>	<b>Number of Still-births.</b>	<b>Percentage of Still-births to births registered.</b>
Burmese	... 3,277	313	9·55
Mohammedans and Malays...	1,121	87	7·76
Hindus	... 2,818	204	7·24
Chinese and Panthays	... 659	38	5·76
Anglo-Indians	... 299	20	6·69
Europeans	... 59	3	5·09
Other Classes	... 328	11	3·35
		(including 1 in which race was unknown)	
	8,561	676	7·90

Out of 676 Still-births, the confinements in 243 cases were supervised by unqualified midwives or relatives.

### Deaths and Death-rates.

9,409 deaths (5,683 males and 3,726 females) were registered as occurring in the City as against 9,541 (5,878 males and 3,662 females and 1 of which 'sex' was unknown) in 1930. There was a decrease of 132 deaths but an excess of 848 deaths over births.

The death-rates for the years 1931 and 1930 on the Census population of 1931 and 1921 respectively work out at 23·50 and 27·61. Of the total deaths, 453 occurred amongst individuals not normally resident in Rangoon but who had come to Rangoon during their final illness and died in Rangoon.

If this number be excluded from the total number of deaths registered, the death-rate for the year on the Census population of 1931 would be 22·37.

The following Table gives the number of deaths registered and the death-rates for the past five years:—

<b>Year.</b>	<b>No. of deaths registered.</b>	<b>Death-rate on Census Population.</b>	<b>Death-rate on Estimated Population.</b>
1926	12,231	35·40	33·04
1927	10,851	31·41	28·91
1928	11,690	33·83	30·71
1929	10,980	31·78	28·46
1930	9,541	27·61	24·40

The number of deaths and death-rates on Census population of 1921 for the various Communities were as follows :—

<b>Communities.</b>		<b>No. of deaths.</b>	<b>Death-rate.</b>
Burmese	...	3,434	32·54
Hindus	...	3,188	25·37
Mohammedans and Malays	...	1,286	20·72
Chinese and Panthays	...	734	30·44
Anglo-Indians	...	162	19·47
Europeans	...	24	6·09
Other Classes (including deaths in which 'race' was unknown)	8 ... 581		36·52

### **Infantile Mortality.**

2,381 infants died before completing their first year of life, giving an infantile mortality rate of 278·12 per 1,000 births as compared with 2,218 infant deaths with an infantile mortality rate of 278·15 in 1930.

1,880 of these deaths occurred among infants born within the City and the remaining 501, of infants born outside Corporation limits.

Of the 1,880 deaths of infants referred to above, 1,073 confinements were attended to by unqualified midwives, 237 by qualified persons, 202 by the Maternity and Infant Welfare Society and the remaining 368 were confined at the Dufferin Hospital.

In the year 1930, 7,974 births were registered in Rangoon Town. Enquiries into the deaths of such of these infants dying before completing their first year of life showed that 1,651 of them died. The mortality rate works out at 207·05. Of these 1,651 infants, 746 died in the first month, 279 in the second month, 235 in the third month, 93 in the fourth month, 61 in the fifth month, 54 in the sixth month, 43 in the seventh month, 38 in the eighth month, 30 in the ninth month, 32 in the tenth month, 27 in the eleventh month, and 13 in the twelfth month.

The following statement gives the causes of infant deaths, their number and infantile death-rate per 1,000 births in different Communities for the year 1931 :—

Cause of Death.	Hindus.	Mohammedans and Malays.	Burmese.	Chinese and Panthays.	Karens.	Anglo-Indians.	Armenians.	Other Classes.	Total.
Premature Birth	...	150	51	173	28	...	1	...	419
Malnutrition ...	...	82	24	76	8	...	2	...	199
Convulsions ...	...	186	66	345	64	...	5	...	697
Bronchitis and Pneumonia	...	216	88	178	53	...	2	...	594
Enteritis ...	...	33	14	25	2	...	1	...	79
Diarrhoea and Dysentery	...	50	32	32	6	...	1	...	136
Obstruction of Bowels ...	...	11	2	13	1	...	...	...	29
Marasmus ...	...	30	10	27	1	...	1	...	73
Whooping Cough	...	...	...	1	...	...	...	...	1
Fever	...	...	12	5	11	2	...	...	34
Diphtheria	...	...	1	...	...	...	...	...	1
Influenza	...	...	...	...	...	...	...	...	1
Plague	...	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...	...	...
Small-pox	...	...	2	1	...	...	...	...	3
Other Causes ...	...	39	15	40	4	...	5	1	115
Total ...	812	308	921	169	...	11	1	48	2,381
Infantile mortality rate per 1,000 births.	288·15	274·76	281·05	256·45	...	186·44	16·95	160·54	80·60

The following Table shows the Infantile mortality rate for the past five years :—

1926	....	320·39
1927	....	293·88
1928	...	340·69
1929	....	317·36
1930	....	278·15

Of the 8,561 births recorded during the year under report—

1,089 were attended to by qualified Medical Practitioners or Midwives;

739 were attended to by Corporation Staff;

1,740 were confined at the Dufferin Hospital;

1,380 were confined at the Maternity and Infant Welfare Society Shelters;

3,586 were attended to by unqualified Midwives;

14 were attended to by friends and relatives;

1 birth was registered in Cantonment; and 12 births in the Military Police Hospital.

The percentage of confinements attended to by unskilled women was 42·05 and the percentage of confinements attended to by qualified Midwives including those confined at the Dufferin Hospital, Military Police Hospital and by the Maternity and Infant Welfare Society was 57·94.

Of the 3,600 births attended by unqualified persons and friends, 924 were in the area where Midwifery by unqualified persons is prohibited under the Burma Nurses and Midwives Amendment Act, 1927.

The following Table gives the summary of the conditions of births registered for the past two years with their percentage rates :—

			1930.	1931.
Total No. of births including Still-births registered	...	...	8,604	9,237
Total No. of Still-births notified	...	...	630	676
Percentage of Still-births to total No. of births registered	...	...	7·90	7·90
Total No. of births excluding Still-births	...	...	7,974	8,561
Total No. of confinements attended by qualified Doctors or Midwives	...	...	1,240	1,089
Percentage of confinements attended by qualified Doctors or Midwives	...	...	15·55	12·72
Total No. of confinements attended to by the Corporation Nurse-Midwives	...	...	219	739
Percentage of confinements attended to by the Corporation Nurse-Midwives	...	...	2·75	8·63
Total No. of children born in Dufferin Hospital	...	...	1,562	1,740
Percentage of children born in Dufferin Hospital	...	...	19·59	20·32
Total No. of Confinements attended by the Maternity and Infant Welfare Society	...	...	1,145	1,380
Percentage of confinements attended by the Maternity and Infant Welfare Society	...	...	14·36	16·12
Total No. attended by friends and relatives	...	...	17	14
Percentage attended by friends and relatives	...	...	0·21	0·16
Total No. of births registered in Cantonment	...	...	1	1
Percentage of births registered in Cantonment	...	...	0·01	0·01
Total No. of births registered in Military Police Hospital	...	...	9	12
Percentage of births registered in Military Police Hospital	...	...	0·11	0·14
Total No. of confinements attended by unqualified Midwives	...	...	3,781	3,586
Percentage of confinements attended by unqualified Midwives	...	...	47·42	41·89

## Maternity and Infant Welfare Clinics.

There are now two Lady Health Assistants and eleven Lady Health Visitors and Nurse-Midwives. They visit the localities inhabited by the poor and help to diffuse and popularise elementary knowledge of the principles of health and hygiene and to carry such knowledge into the homes and lives of the ignorant, they give advice on the prevention of disease and the care and up-bringing of infants and bring to the notice of the Authorities, unregistered births, unvaccinated children and cases of sickness, they also persuade prospective mothers to go to the Dufferin Hospital or to a Maternity Shelter. Where this provision is not taken advantage of, they attend on the women in their own houses, free of charge.

Necessitous mothers and infants are also supplied with Milk at the Clinics at Forest Road and the Merlin Kingsley Memorial Dispensary, free of cost.

The appointment of the Nurse-Midwife for Kanoungto which was originally sanctioned for one year has been extended for another year.

*Summary of work.*—The following statements show the work done by the Lady Health Assistants, Lady Health Visitors and the Nurse-Midwives.

(a) Statement showing the work done by the Lady Health Assistants during the year 1931.

Months.	No. of confinements attended to.	No. of visits paid for Ante-Natal work.	No. of visits paid for Post-Natal work.	Ante-Natal cases found.	No. of cases sent to the Dufferin Hospital or the Maternity Shelter.	No. of unregistered births detected.	No. of Schools inspected.	No. of lectures given.	No. of women and children treated at the Corporation Dispensaries by the Lady Health Assistants.	Remarks.
January	...	81	223	49	9	...	4	4,241		
February	...	20	79	16	...	...	...	1,857		
March	1	112	145	54	2	...	2	4,469		
April	...	79	80	36	4	...	2	5,418		
May	...	113	155	59	2	1	4	5,589		
June	...	72	265	53	2	3	3	6,865		
July	...	77	90	18	...	17	...	5,658		
August	...	46	115	34	...	9	...	5,579		
September	1	70	117	21	1	10	...	5,075		
October	1	52	76	24	3	3	...	3,948		
November	1	112	145	73	31	3	3	5,139		
December	1	106	154	24	18	1	1	5,079		
Total	4	940	1,644	97	413	24	47	15	53,838	

(b) Statement showing the work done by the Lady Health Visitors during 1931.

Months.	No. of confinements attended to.	Remarks.							
		No. of visits paid for Ante-Natal work.	No. of visits paid for Post-Natal work.	Ante-Natal cases found.	No. of cases sent to the Dufferin Hospital or to the Maternity Shelter.	No. of unregistered births detected.	No. of Schools inspected.	No. of vaccinations performed.	
January		45	411	21	23	1	6		
February		43	396	19	22		29		
March		67	719	29	22		83		
April	1	45	481	15	15		15		
May		94	617	49	38		20		
June		62	482	46	16		17		
July		65	629	20	19		546		
August		54	539	30	4		436		
September		45	350	8	14		15		
October		53	483	18	4		8		
November		112	419	33	28		4		
December		92	692	31	46		3		
Total ...	1	777	6,218	155	319	251	68	2,128	

(c) Statement showing the work done by the Nurse-Midwives during the year 1931.

Months.	No. of confinements attended to.	Remarks.							
		No. of visits paid for Ante-Natal work.	No. of visits paid for Post-Natal work.	Ante-Natal cases found.	No. of cases sent to the Dufferin Hospital or to the Maternity Shelter.	No. of unregistered births detected.	No. of vaccinations performed.		
January	53	545	890		20	38	18		
February	50	516	707		12	26	87		
March	71	699	877		12	30	32		
April	47	693	795		16	18	48		
May	56	756	939		19	25	23		
June	54	707	1,025		30	14	148		
July	70	791	1,161		19	24	152		
August	74	865	1,463		28	24	10		
September	63	800	1,562		29	8	148		
October	68	929	1,831	52	32	8	36		
November	70	768	1,433	116	29	31	38		
December	62	672	1,092	71	34	30	395		
Total ...	738	8,741	13,775	239	280	276	1,135		

## (d) Statement showing distribution of Milk at the Clinics.

	Infants attended the Clinics.	Mothers provided with Milk.	Milk distributed.
Theinbyu Clinic	... 208	65	1,800 lbs.
Forest Road Clinic	... 98	39	849 lbs.
Total	... 306	104	2,649 lbs.

It will therefore be seen that the Maternity and Infant Welfare Scheme has been doing good work.

**Cholera.**

16 cases of Cholera with 10 deaths were reported during the year. The corresponding figures for the previous year were 34 cases and 22 deaths. Of the total number of cases reported, 3 (amongst which 2 deaths occurred) were ascertained to have been imported.

8 cases were treated in the Contagious Diseases Hospital of which 2 died, giving a case mortality rate of 25·00. 8 cases were treated at home of which 8 died, giving a case mortality rate of cent. per cent. The death-rate per 1,000 population was 0·02 and the average for the past five years is 0·23.

**Small-pox.**

82 cases of Small-pox were reported during the year 1931 of which 16 were ascertained to have been imported. The number of deaths recorded was 20, giving a case mortality rate of 24·39 per cent. In 1930 the total number of cases recorded was 52 with 15 deaths. The death-rate per 1,000 population of 1931 Census was 0·05 and the average for the past five years is 0·38.

Of the total number of deaths, 2 occurred amongst the cases in which vaccination scars were visible, 8 deaths amongst the cases said to have been vaccinated in infancy but in which no scars were visible and 10 amongst the unvaccinated. 4 unvaccinated children under the age of five were attacked with Small-pox and all four died.

65 cases were treated in the Contagious Diseases Hospital of which 11 died, giving a case mortality rate of 16·92. 17 cases were treated in their homes of which 9 died, giving a case mortality rate of 52·94.

The following Table gives the number of Small-pox cases reported during the year month by month :—

1931.	No. of cases reported.
January	...
February	...
March	...
April	...
May	...
June	...
July	...
August	...
September	...
October	...
November	...
December	...
	<hr/>
Total	82

The following Table shows the number of vaccinations performed during the year 1931.

Months.	Vaccinations performed by Corporation Special staff.	Vaccinations performed by Private Medical Practitioners and Contagious Diseases Hospital staff.	Vaccinations performed in the Rangoon Jail by the Jail Staff.	Vaccinations performed at the Port Health Station on arrival of Vessels.	Grand Total.
January 1931 ...	1,350	155	129	10,898	12,532
February ...	3,506	142	279	17,957	21,884
March ...	6,415	189	428	16,882	23,914
April ...	1,687	141	384	11,599	13,811
May ...	2,520	87	546	9,657	12,810
June ...	1,776	245	519	9,494	12,034
July ...	5,052	176	450	7,334	13,012
August ...	2,922	110	524	7,299	10,855
September ...	2,788	125	551	11,606	15,070
October ...	1,186	102	571	11,912	13,771
November ...	1,363	289	427	17,438	19,517
December ...	4,412	165	495	22,565	27,637
Total ...	34,977	1,926	5,303	154,641	196,847

Vaccinal Condition of cases of Small-pox at the Contagious Diseases Hospital during 1931.

Ages.	A.	B.	C.	D.	E.	F.
	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.
Under 1 year	...	...	1	...	...	...
1 year ...	...	...	...	...	...	...
2 years...	...	...	1	(1)	...	...
3 " "	...	...	...	...	...	...
4 " "	...	...	1	...	...	...
5 " "	...	...	...	...	...	...
6 " "	...	...	...	...	...	...
7 " "	...	...	...	...	...	...
8 " "	...	...	1	...	...	...
9 " "	...	...	...	...	...	...
10 " "	1	...	...	...	...	...
11 " "	...	...	...	...	...	...
12 " "	...	...	...	...	...	...
13 " "	...	...	...	...	...	...
14 " "	1	...	...	...	...	...
15 " "	...	...	...	...	...	...
16—20 "	13	...	8	(3)	...	...
21—25 "	18	(1)	6	(4)	...	...
26—30 "	10	(1)	2	...	...	...
31—35 "	1	...	1	(1)	...	...
36—40 "	...	...	...	...	...	...
41—50 "	...	...	...	...	...	...
51—60 "	...	...	...	...	...	...
61—70 "	...	...	...	...	...	...
71—80 "	...	...	...	...	...	...
81 & upwards	...	...	...	...	...	...
Total ...	44	(2)	21	(9)	...	...

( ) shows deaths under each age period.

### Measles.

261 cases of Measles were reported during the year and there were 2 deaths, giving a death-rate of 0·005 per 1,000 of population. In the year 1930 there were 177 cases and 2 deaths with a death-rate of 0·006.

The average for the past five years is 0·01.

### Chicken-pox.

379 cases of Chicken-pox were reported during the year and there were no deaths as compared with 553 cases and no deaths in the previous year.

### Plague.

During the year 16 cases of Plague with 14 deaths were recorded, giving a case mortality rate of 87·50 as compared with 43 cases with 38 deaths in the preceding year, giving a case mortality rate of 88·37. Of the 16 cases reported, 13 were males and 3 females. The death-rate per 1,000 of population for the year was 0·03 and the average for the past five years is 0·47.

The age period most affected was between 20 and 30 years and the Hindu Community suffered more heavily than the other Communities in the City.

5 cases, including 1 of the previous year, were treated in the Contagious Diseases Hospital and of these, 4 died, giving a case mortality rate of 80·00. 12 cases were treated in their homes of whom, 10 died, giving a case mortality rate of 83·33.

Of the total number of cases, 4 were ascertained to have been imported and proved fatal.

The statement below gives an account of the rats caught and examined at the Corporation Laboratory and the number of Plague seizures and deaths in 1931 :—

Months.	No. of rats caught.	No. of rats examined.	No. of rats found infected.	Percentage of infection.	No. of Plague seizures	No. of Plague deaths.
January ... ...	45,521	2,506	4	0·16	2	1
February ... ...	42,037	2,350	...	...	...	...
March ... ...	49,415	2,615	1	0·04	1	1
April ... ...	43,891	2,337	3	0·13	1	1
May ... ...	47,461	2,746	7	0·26	2	2
June ... ...	46,762	2,659	3	0·11	1	1
July ... ...	48,830	2,811	6	0·21	2	2
August ... ...	50,553	2,580	3	0·12	1	1
September ... ...	50,413	2,851	2	0·07	3	2
October ... ...	50,900	2,803	4	0·14	1	1
November ... ...	49,248	2,409	...	...	1	1
December ... ...	53,877	3,017	3	0·09	1	1
Total ...	5,78,908	31,684	36	0·11	16	14

The following Table gives the species of rats found infected in the City of Rangoon during the year 1931 according to Circles :—

Circles.	Mice.	Ganamas Bengala- laises.	Rat Rattus.	Rat Concolor.	Total.
Newly Added Area	...	...	...	...	...
North Kemmendine	...	...	1	...	2
South Kemmendine	...	...	...	1	1
Lanmadaw	...	...	...	2	2
Taroktan	...	...	2	3	5
North-West Town	...	...	2	3	5
South-West Town	...	...	2	1	3
North-East Town	...	...	...	3	3
South-East Town	...	...	1	1	2
Botataung	...	...	1	3	4
Yegyaw	...	...	...	...	...
Theinbyu	...	...	1	7	8
Tamwe	...	...	...	1	1
Dalla	...	...	...	...	...
Kanaungto	...	...	...	...	...
Total	...	8	3	25	36

*Inoculation.*—During the year under review 215 persons were inoculated by the Medical Officers of the Health Department.

*Disinfection and Cleaning*—713 houses were disinfected by the Health Department staff.

16,536 houses and house-sites were cleaned. The houses in the poor quarters of the City were cleaned, as usual, free of charge.

*Destruction of rats.*—5,78,908 rats were destroyed during the year of which 31,684 were examined at the Corporation Laboratory and 36 were reported to be Plague infected. The corresponding figures for 1930 were 5,67,490 destroyed, 33,957 examined and 50 found infected.

The following Table gives the number of inoculations performed, houses and house-sites cleaned, houses disinfected, rats destroyed and number of Plague deaths for the past ten years :—

Year.	Inoculations.	Houses and house-sites cleaned.	Houses disinfected.	Rats destroyed.	Plague deaths.
1921	...	4,495	5,532	1,594	405,178
1922	...	5,561	7,233	2,112	408,785
1923	...	5,572	14,797	2,158	496,987
1924	...	2,018	36,237	1,285	630,907
1925	...	1,017	32,802	2,935	604,250
1926	...	605	28,747	1,738	669,184
1927	...	162	40,010	1,733	864,962
1928	...	338	32,527	5,140	861,827
1929	...	292	11,973	1,096	679,699
1930	...	262	9,266	847	567,490

### **Enteric Fever.**

57 cases with 47 deaths were reported during the year under review as compared with 105 cases with 74 deaths in the previous year.

The number of deaths recorded during the previous five years is given below :—

1926	...	...	...	...	78
1927	...	...	...	...	74
1928	...	...	...	...	68
1929	...	...	...	...	72
1930	...	...	...	...	74

The death-rate per 1,000 of population for the year was 0·11 and the average for the previous five years is 0·21.

### **Cerebro-Spinal Meningitis**

2 cases with 2 deaths from this disease were recorded as compared with 5 cases with 5 deaths in the previous year.

These 2 deaths were registered in Hospitals.

The death-rate per 1,000 of population for the year was 0·005, and the average for the past five years is 0·02.

### **Diphtheria.**

13 cases of Diphtheria with 4 deaths were reported during the year as compared with 33 cases and 8 deaths in the previous year.

The death-rate for the year was 0·01 and the average for the past five years is 0·02.

### **Puerperal Septicaemia.**

18 cases of Puerperal Septicaemia with 18 deaths were recorded during the year as compared with 31 cases and 31 deaths in the previous year. The death-rate per 1,000 population was 0·04 and the average for the past five years is 0·08.

### **Malarial Fever.**

During the year 129 deaths were registered as compared with 132 deaths in the preceding year, giving a death-rate of 0·32. The average for the last five years is 0·57.

### Influenza.

9 deaths from Influenza were reported during the year as compared with 13 deaths in the previous year.

The death-rate per 1,000 population for the year was 0·02 and the average for the past five years is 0·09.

### Diarrhoea and Dysentery.

Diarrhoea and Dysentery accounted for 644 deaths as compared with 727 deaths in 1930. Of these, 121 were reported from Hospitals and other Public Institutions. The death-rate per mille of population was 1·61, the average for the last five years being 3·04.

### Tuberculosis.

777 deaths from Tuberculosis were reported, giving a death-rate of 1·94 per mille as compared with 761 deaths and a death-rate of 2·20 in the previous year. Of these, 730 deaths were recorded as Phthisis. Of the 777 who died of this disease, 538 were males and 239 females, giving a death-rate of 1·98 and 1·85 respectively. The highest number of deaths were recorded from South Kemmendine, Botataung and Theinbyu.

320 deaths were recorded in Hospitals and other Public Institutions.

The following statement gives the number of deaths and death-rate on Census population from Tuberculosis according to sex for the past five years :—

Year.	MALE.			FEMALE.	
	No. of deaths.	Death-rate.		No. of deaths.	Death-rate.
1926	767	3·21		385	3·61
1927	662	2·77		302	2·83
1928	543	2·27		253	2·37
1929	576	2·41		276	2·58
1930	519	2·17		242	2·27

The deaths and death-rate amongst the various Communities were as follows :—

	Deaths.	Death-rate on 1921 Census Population.
Hindus ...	285	2·27
Mohammedans and Malays ...	136	2·19
Buddhists ...	280	2·45
Christians ...	33	1·30
Other Classes ...	43	2·37

The following statement gives the number of deaths from Tubercl<sup>e</sup> of Lungs and Respiratory Diseases with their death-rate per 1,000 of population for the past ten years :—

Year.	TUBERCLE OF LUNGS.			RESPIRATORY DISEASES.	
	Total No. of deaths.	Death-rate per 1,000 of population.		Total No. of deaths.	Death-rate per 1,000 of population.
1921	...     ...	856	2·50	2,241	6·55
1922	...     ...	994	2·91	2,198	6·43
1923	...     ...	887	2·59	2,131	6·23
1924	...     ...	975	2·82	2,287	6·62
1925	...     ...	1,188	3·44	2,344	6·78
1926	...     ...	1,093	3·16	2,585	7·48
1927	...     ...	902	2·61	2,476	7·17
1928	...     ...	747	2·16	2,642	7·65
1929	...     ...	804	2·33	2,329	6·74
1930	...     ...	709	2·05	1,967	5·69

As stated in my previous report the Corporation had decided to open a Clinic for treatment of Tuberculosis cases but it has not yet been possible to give effect to the proposed scheme. It may take sometime to find funds for this work.

### **Respiratory Diseases (excluding Phthisis).**

2,198 deaths were registered from this disease as compared with 1,967 deaths in the previous year. Of these, 262 deaths were recorded in Hospitals and other Public Institutions. The death-rate per 1,000 population was 5·49 as compared with 5·69 in the previous year, the mean ratio for the past five years being 6·95.

### **Cancer.**

41 deaths from Cancer were recorded during the year giving a death-rate of 0·12 per 1,000 of population as compared with 35 deaths with a death-rate of 0·10 in the previous year.

A statement showing these deaths according to Races and parts of the body affected is given below :—

Parts of the body affected.	Hindus.	Mohammedans.	Burmese.	Chinese.	Europeans.	Anglo-Indians.	Other Classes.	Total.
Jaw	1	1	...	...	1	...	...	3
Neck	...	...	1	...	...	...	...	1
Tongue	...	1	1	...	...	1	1	4
Throat	...	...	1	...	...	...	...	1
Breast	...	...	3	...	...	...	...	3
Stomach	2	...	1	...	...	...	1	4
Liver	1	3	2	...	...	...	...	6
Colon	...	...	...	1	...	...	...	1
Larynx	1	...	...	...	...	...	...	1
Cervix	4	1	1	...	...	...	...	6
Rectum	...	...	1	...	...	...	...	1
Oesophagus	...	...	...	1	...	...	...	1
Uterus	1	...	6	...	...	...	...	7
Parts not known	...	...	1	...	...	...	1	2
Total	10	6	18	2	1	1	3	41

### Beri-Beri.

74 deaths were registered as compared with 73 deaths in the previous year. Of these, 50 deaths were reported from Hospitals and other Public Institutions.

The death-rate per 1,000 population for the year was 0·18 and the average for the past five years is 0·26.

There was no death from Epidemic Dropsy.

The following Table gives the death and death-rate for the various races :—

Race.	NUMBER OF DEATHS.			Death-rate.
	Male.	Female.	Total.	
Hindus	51	4	55	0·44
Mohammedans and Malays	8	2	10	0·16
Buddhists	3	2	5	0·04
Christians	...	...	...	...
Other Classes	4	...	4	0·22
Total	66	8	74	0·21

## Kala-Azar.

There was no death from Kala-Azar. There were 2 deaths in the previous year.

### Comparative Mortality from Principal Causes.

Table of deaths and death-rates from Epidemic diseases and other principal causes during 1930 and 1931 and the last decennium :—

Cause of Death.	1930.		1931.		Average for 10 years.	
	No. of deaths.	Death-rate.	No. of deaths.	Death-rate (on 1931 Census population)	No. of deaths.	Death-rate.
Plague ...	38	0.11	14	0.03	562	1.63
Cholera ...	22	0.06	10	0.02	100	0.29
Small-pox ...	15	0.04	20	0.05	183	0.53
Influenza ...	13	0.04	9	0.02	88	0.25
Enteric ...	74	0.21	47	0.11	60	0.17
Malaria ...	132	0.38	129	0.37	262	0.76
Tuberculosis ...	761	2.20	730	1.94	915	2.65
Diseases of the Respiratory system.	1,967	5.69	2,193	5.49	2,320	6.72
Diarrhoea and Dysentery	727	2.11	644	1.61	1,025	2.97
Beri-Beri ...	73	0.21	74	0.18	94	0.27
Puerperal Septicaemia ...	31	0.09	18	0.04	26	0.08
Injuries ...	469	1.36	287	0.72	246	0.71
Other Causes ...	5,219	15.10	5,229	13.06	5,661	16.38
Total ...	9,541	27.61	9,409	23.50	11,542	33.40

### Contagious Diseases and Observation Hospitals.

The reports of the Medical Officer on the working of the above Hospitals for the year 1931 are appended hereto.

The following Table gives the summary of work done at the Contagious Diseases Hospital during the year 1931 :—

Diseases.	Patients remaining in hospital on 31st December 1930.	No. of patients admitted during the year 1931.	Total number treated.	Discharged cured.	Died.	Case mortality per cent.	Patients remaining in hospital on 31st December 1931.
Plague ...	1	4	5	1	4	80.00	...
Cholera ...	...	8	8	6	2	25.00	...
Small-pox ...	...	65	65	41	11	16.92	13
Chicken-pox ...	3	351	354	314	...	...	40
Measles ...	13	175	188	187	1	0.53	...
Mumps ...	...	29	29	25	...	...	4
Diphtheria ...	1	9	10	8	2	20.00	...
Erysipelas ...	2	7	9	7	2	22.22	...
Influenza ...	...	...	...	...	...	...	...
Cerebro-Spinal Meningitis.	...	1	1	...	1	100.00	...
Diarrhoea ...	...	7	7	4	3	42.86	...
Adenitis ...	...	9	9	8	...	...	1
All other diseases.	1	128	129	107	21	16.28	1
TOTAL ...	21	793	814	708	47	5.77	59

## Medical Relief.

The building for the Dispensary for Women and Children at Kyundaw Quarter, Kemmendine, was completed during the year and the Dispensary was formally declared open by the President of the Corporation on the 2nd February 1931 at 5 p.m. and taken over charge by Dr. (Miss) G. Hormusji, M.B. There are now five Dispensaries maintained by the Corporation. The Dispensaries at Dalla and Kanaungto are managed by the respective Medical Registrars in addition to their Registration and Vaccination duties. The Forest Road and Merlin Kingsley Memorial Dispensaries are under the charge of two Medical Registrars (Sub-Assistant Surgeons). The Female and Children section of the Merlin Kingsley Memorial Dispensary is in charge of Lady Health Assistant Dr. (Miss) A. Dhar, M.B.

The statement below gives the number of patients treated at each of these Dispensaries.

Names of Dispensaries.	No. of patients attended.						No. of new cases attended during the year.	Total attendance in		Daily average in		
	Adults.			Children.				1930.	1931.	1930.	1931.	
	Male.	Female.	Total.	Male.	Female.	Total.						
Dalla Dispensary	10,413	2,247	12,660	1,974	1,301	3,275	15,935	21,786	25,181	60	69	
Kanaungto ,,	8,735	1,852	10,587	1,185	955	2,140	12,727	24,419	23,736	67	68	
Merlin Kingsley Memorial Dispensary.	13,471	6,247	19,718	3,996	4,222	8,218	27,936	66,676	71,612	183	196	
Forest Road Dispensary.	11,303	4,259	15,562	2,907	2,278	5,185	20,747	50,592	52,243	138	144	
Bagaya Phoongyi Road Dispensary for Women and Children	Nil	6,525	6,525	2,359	2,126	4,485	11,010	Nil	33,883	Nil	104	
Total ...	43,922	21,130	65,052	12,421	10,882	23,303	88,355	163,473	206,655	448	581	

Majority of the patients attending the above dispensaries belong to the poor working class in general.

## Medical Inspection of Municipal School Students.

At the instance of the Commissioner, the Assistant Health Officer and the Lady Health Assistants were asked to examine the boys and girls of the Municipal Schools in addition to their own duties. During the year 1931 they examined 1,207 students and a summary of the result of inspection is given in the form of a Statement hereunder :—

*Medical Inspection of Municipal School Students during the year 1931.*

			SCHOOL AT							
			121st Street.	52nd Street.	94th Street.	57, Analingbaing Street, Kemmendine.	200, Shan Road.	211, Kemmendine	75, Dagon Thiri Street.	Ayogon Street.
1. Total number of pupils examined ...	54	215	319	153	57	256	76	77		
2. Number registered for Defective Vision, eye strain and squint ...	1	8	14	13	1	19	1	3		
Number in whom defect corrected ...	5	3	...	...	...	...	...	...		
3. Number registered for Trachoma ...	1	2	3	...	...	...	...	...	10	
Number corrected ...	1	1	1	...	...	...	...	...	...	
4. Number registered for Enlarged Tonsil ...	2	24	14	32	...	44	3	5		
Number cured ...	20	5	...	...	...	...	...	...	...	
5. Number registered for Nasal Obstruction ...	...	1	...	...	...	...	...	...	...	
Number cured ...	...	...	...	...	...	...	...	...	...	
6. Number registered for Defective Hearing ...	...	2	6	...	...	7	...	...	...	
Number cured ...	...	...	2	2	...	...	...	...	...	
7. Number registered for Otorrhoea ...	1	3	1	...	...	4	...	...	2	
Number cured ...	1	1	...	...	...	...	...	...	...	
8. Nutrition :—										
Number registered ...	33	144	166	120	27	205	40	43		
Good ...	19	61	137	32	27	46	34	25		
Fair ...	2	10	16	1	3	5	2	9		
Poor ...	...	...	...	...	...	...	...	...	...	
9. Number registered for Anaemia ...	...	10	21	...	...	...	...	1	3	
Number cured ...	...	3	10	...	...	...	...	...	...	
10. Number registered for Defective Teeth ...	14	44	94	46	14	62	22	10		
Number cured ...	2	10	18	...	...	...	...	...	...	
11. Number registered for Skin Disease ...	2	16	25	...	1	4	1	5		
Number cured ...	2	12	10	...	...	...	...	...	...	
12. Number registered for Glandular Enlargement ...	...	1	2	...	...	2	2	1		
Number cured ...	...	...	...	...	...	...	...	...	...	
13. Number registered for Nervous Defect ...	...	1	1	...	...	...	...	...	...	
Number cured ...	...	...	...	...	...	...	...	...	...	
14. Number registered for other Curable Defects ...	...	1	1	...	...	8	...	8		
Number cured ...	...	...	...	...	...	2	...	...	...	
15. Number registered for Non-curable Defects ...	...	...	1	...	...	...	...	...	...	1
Number by primary vaccination ...	13	197	292	150	55	27	70	71		
16. Vaccination	Number by re-vaccination ...	38	12	15	69	...	224	...	...	
	Number protected by small-pox	2	4	12	12	...	3	2	1	
	Number unprotected ...	1	2	...	...	2	3	4	5	

**Medical Examination of Rickshaw Pullers.**

The following is a Statement of work done by the Medical Officer, for the examination of Rickshaw Pullers and Attendance to Municipal Staff :—

No. of Pullers examined ...	... 14,778 of which 2,468 were Old Licensees.
No. of Pullers found fit by M.O. ...	12,766 of which 2,461 were Old Licensees.
No. of Pullers found unfit ...	2,012 of which 7 were Old Licensees.
No. of Pullers medically fit and licensed by Hackney Carriage Department ...	11,281
No. of Pullers medically fit, but rejected by Hackney Carriage Department for ignorance of Police and Traffic Regulations ...	1,485

Of the rejected medically unfit the following defects were noted :—

			Old Pullers.	New Pullers.	Total.
Under age ...	...	...	Nil	1,118	1,118
General Debility	...	...	7	730	737
Heart Disease	...	...	Nil	99	99
T.B. Lungs ...	...	...	Nil	28	28
Defective Vision	...	...	Nil	15	15
Deformity ...	...	...	Nil	4	4
Varicose Veins	...	...	Nil	6	6
Spleen Enlarged	...	...	Nil	2	2
Hernia ...	...	...	Nil	1	1
Hydrocele ...	...	...	Nil	2	2
<hr/>			<hr/>	<hr/>	<hr/>
	TOTAL	...	7	2,005	2,012
<hr/>			<hr/>	<hr/>	<hr/>

### Medical Attendance to Staffs of the various departments.

(a) Fire Brigade—				
1. Central Station	...	448	cases of which 7 were injuries.	
2. Kemmendine Station	...	27	cases.	
3. Fire Float	...	25	"	
(b) Motor Transport Department	...	370	cases of which 46 were injuries.	
(c) Yegu Pumping Station	...	52	cases.	
(d) Compressor Station	...	132	cases of which 11 were injuries.	
(e) Water and Sewerage Department		33	cases.	
(f) Scott Market	...	41	"	
(g) Kokine High Level Reservoir	...	2	"	
(h) Hlawga Dam No. 1	...	1	"	
(i) Conservancy Department	...	1	"	
(j) Rubbish Tip	...	1	"	
(k) Pazundaung Cattle Slaughter House	...	9	"	

### Markets.

Markets were, as usual, regularly inspected by the Assistant Health Officers and steps were taken to keep them in a sanitary condition.

As a result of re-organisation of the Scott Market, the appointment of the Sanitary Inspector who was in charge of the cleanliness and sanitation of the Scott Market was abolished during the year.

### Ambulances.

The following Table gives an account of the work done by the two Ambulance Cars during the year under review :—

		No. of trips.	No. of Patients.
1. Observation cases	...	394	1,166
2. Infectious cases	...	584	959

## **Laboratory.**

This subject is dealt with in the report of the Analyst which is printed as a Supplement to this report.

### **Jerked Meat.**

The Port Authorities continued to report the arrival of all consignments of Jerked meat to the Corporation Health Officer.

61 inspections were made by the food Inspectors and 4,738 bundles of such meat were inspected by them before delivery.

### **Unwholesome Foodstuff destroyed.**

The Statement of articles of unwholesome food and drink destroyed during the year 1931 is given at pages 118 and 119.

### **Ghee Samples.**

59 samples of Ghee were taken under the Ghee Act and 12 samples were reported to be adulterated, by the Chemical Examiner to the Government of Burma. No action was taken in 2 cases as the parties were new and Ghee in the shops was very small in quantity and in another case, the party closed the shop and went away before any action could be taken by the Department.

The remaining 9 cases plus 2 of last year were sent up for prosecution. In 6 cases, the parties were fined to a total amount of Rs. 145. 3 cases were struck off as the parties had left Rangoon and the other 2 cases were pending disposal.

### **Eating Houses and Tea-shops.**

During the year under report 19,070 inspections were made by the Food Inspectors and 1,236 Licenses were issued.

### **Wash House.**

The total number of tanks at the Dhoby Wash House is 564. The approximate number of dhobies using them daily is 600. Out of these tanks, 36 covered tanks are engaged by several Pinmen and a few others.

### **Burial Grounds.**

All the Burial Grounds were regularly visited and burial passes collected and checked.

### **Hides.**

The storage of Hides is restricted to the Corporation godowns in the Neikban Quarter. No fresh Licenses were issued for this business in other parts of the Town.

## **Extension of Municipal Water Supply.**

- (a) Laying 6" water main and providing additional stand pipes and Fire Hydrants in Settlement Nos. 41, 70, 71 and 72, Kyaukmyaung Quarter.
- (b) Laying 6" block water main along Sparks Street between Dalhousie and Strand Roads.
- (c) Laying 6" block water main along Mayo Street between Monkey Point Road and Lower Pazundaung Road.
- (d) Laying 6" block water main along Little Sisters Road between Little Sisters Lane and Mandalay Road.

## **Extension of Sewerage System.**

- (a) Extension of 6" Gravitating Sewer from Kennedy Street along 123rd Street and back drainage space.
- (b) Extension of 9" Gravitating Sewer in back drainage space between Engyi Street and Yegyaw Road (Settlement No. 5).
- (c) Underground Public Convenience with 50 gallons Ejector Station at the junction of Stockade Road and Montgomery Street.

## **Registered Buildings.**

The following Statement gives the total number of Registered Buildings in the City and the number inspected for overcrowding, etc.

*Statement of Registered Buildings*

1 Division.	2 Total No. of Registered Buildings struck off the Register in 1931.	3 No. registered in 1931.	4 <i>Total No. of Registered Buildings on 31st December 1931.</i>			5 <i>Total No. of persons allowed to live.</i>		
			Lodging houses.	Mill cooly barracks.	Total.	Lodging houses.	Mill cooly barracks.	Total.
West Town I ...	3 29	419	...	419	22,059	...	22,059	262
West Town II ...	2 33	441	...	441	17,296	...	17,296	545
West Suburban Area ...	6 47	162	133	295	3,248	13,176	16,424	133
East Town I ...	8 16	421	...	421	18,895	...	18,895	558
East Town II ...	2 20	276	24	300	13,659	5,780	19,439	323
East Suburban Area ...	2 75	273	150	423	8,900	16,295	25,195	349
<b>Total ...</b>	<b>23 220</b>	<b>1,992</b>	<b>307</b>	<b>2,299</b>	<b>84,057</b>	<b>35,251</b>	<b>119,308</b>	<b>2,170</b>

for the year 1931.

7	8	9	10	11	12	13	14	Remarks.
Percentage of inspection to the total No. of buildings registered.	Total No. of houses inspected more than once during the year.	No. exempted from the operation of Rule re 36 sq. ft. floor space.	No. of individual rooms where overcrowding was found during the year 1931.	No. of individual rooms of Registered Buildings in which no excess was found.	No. of Registered Building cases sent up for prosecution during the year 1931.	Total No. of Registered Building prosecutions tried during the year 1931.	Total amount of fines imposed with Costs.	
62·53	144	⋮	372	889				
123·58	162	⋮	659	979				
45·08	38	⋮	45	422				
132·54	166	⋮	752	1,428	2,407	2,393	12,279	Rs.
107·66	92	24	142	718				Fine ... 10,569
82·50	111	...	107	659				Cost ... 1,710
94·39	713	24	2,077	5,095	2,407	2,393	12,279	12,279

### Registration Depots.

The following are the Registration and Vaccination Depots in the City :—

Kanaungto	...	...	Kanaungto.
Dalla	...	...	Dalla.
Kemmendine	...	...	59, Kyaungyi Street.
Forest Road	...	...	47, Saya Ma Gyi Road.
Lanmadaw	...	...	126, 15th Street.
Central, West	...	...	184, 27th Street.
Central, East	...	...	147, Barr Street.
Botataung	...	...	26, Dalhousie Street.
Pazundaung	...	...	37, Evanson Street.

The proposal to open another registration station at Tamwe with a Dispensary attached to it has been deferred for the present owing to financial stringency.

**The following statement gives a summary of the work done in the Department during the year 1931 :—**

No. of Notices issued	...	...	No. 23,989
No. of cases sent up for prosecution	...	...	„ 3,092
No. of cases tried	...	...	„ 3,213
No. of cases withdrawn	...	...	„ 127
No. of cases pending disposal	...	...	„ 740
Fines imposed	...	...	Rs. 14,008
Cost awarded	...	...	„ 2,150
No. of complaints received	...	...	No. 311
No. of Inter-departmental reports issued	...	...	„ 700
No. of cases opened	...	...	„ 3,814

No. of Licenses issued :—

Milk	...	...	„ 56
Ice-cream and Sherbet	...	...	„ 62
Ice and Aerated Waters	...	...	„ 18
Dangerous and Offensive Trades	...	...	„ 970
Public Eating Houses and Tea-stalls	...	...	„ 1,236
No. of letters received	...	...	„ 13,591
No. of letters issued	...	...	„ 15,138
No. of Indents, Statements, Bills, etc., issued	...	...	„ 4,694
No. of houses condemned under Section 156	...	...	„ 4
No. of houses vacated under Section 156	...	...	„ 1
Amount of fees paid for Notification of infectious diseases by Private Medical Practitioners	...	...	Rs. 222

**The following statement shows the work done by the Lady Health Visitors, Nurse-Midwives and Vaccinators, etc., during the year 1931:—**

No. of Births verified	...	...	1,599
No. of Unregistered births found	...	...	1,830
No. of Small-pox cases found during house to house inspection	14		
No. of Notices served for vaccination	...	...	8,206
No. of Prosecutions under Vaccination Act...	...	...	6
No. of Schools inspected for vaccination	...	...	232
No. of School children inspected	...	...	31,140
No. of School children vaccinated	...	...	7,742
No. of Mills inspected for vaccination	...	...	75
No. of Mill hands inspected	...	...	11,646
No. of Mill hands vaccinated	...	...	5,304
No. of Primary vaccinations performed	...	...	9,303
Total number of vaccinations performed	...	...	1,96,847

**The following Table gives a comparative summary of the work of Vaccination and Sanitary Sections for the ten years 1922—31.**

Calendar year.	Total No. of vaccinations performed.	No. of Sanitary Notices issued.	No. of Blockages cleared.	No. of letters received	No. of letters issued.	No. of licenses issued.	No. of cases tried.	Amount of Fines realised.
1922	46,711	11,973	3,999	7,981	11,528	919	1,453	Rs. 10,086 A. 4
1923	65,091	12,076	6,012	7,840	11,093	865	1,396	10,539 0
1924	57,334	13,211	18,240	8,807	11,902	1,057	1,311	8,516 4
1925	127,111	15,768	15,364	8,748	13,005	1,246	2,489	15,873 0
1926	85,850	17,038	22,765	9,292	13,076	1,268	2,087	13,689 0
1927	93,195	20,181	22,118	9,362	14,162	1,963	3,325	26,380 8
1928	241,774	20,770	24,060	11,372	14,705	2,358	3,710	30,442 8
1929	258,374	27,264	30,025	13,483	17,614	2,568	3,581	24,048 8
1930	213,653	24,428	31,232	12,316	14,099	2,556	2,849	15,251 0
1931	195,847	23,989	31,369	13,591	15,138	2,342	3,213	14,008 0

**Revenue received during the year.**

	Rs.	A.	P.
Issue of Licenses for Dangerous and Offensive Trades, etc.	...	8,581	0 0
Issue of Licenses for Public Eating-houses and Tea-Shops	...	11,855	0 0
Issue of Wash-house tickets	...	14,563	7 9
Lease of Ironing-sheds, etc., at Dhoby Wash-house	...	1,729	0 0
Issue of extracts of Births & Deaths	...	496	5 0
Rents from Hide Godowns	...	7,090	0 0
Miscellaneous	...	1,139	4 0
TOTAL	...	45,454	0 9

## Cleansing Department.

The Conservancy Department was temporarily placed under the control of the Health Officer from the 19th May 1931 to the 5th August 1931 when the conservancy coolies went on strike and Assistant Health Officer, Dr. K. P. Pillai, M.B., B.S. (Bom.), D.P.H., was deputed for this work.

With the retirement of Dr. K. R. Dalal and appointment of Dr. J. Hormasji as Health Officer the Conservancy and Motor Transport Departments which were under the Director, Cleansing Department (Dr. Hormasji), were again placed under the Health Officer. The question of complete amalgamation of the Cleansing Department with the Health Department is under consideration of the Corporation.

### Vaccination Report for the Official year 1931-32.

The total number of vaccinations performed during the year 1931-32 was 2,84,265. This figure includes 1,56,537 vaccinations performed among passengers on arrival of Steamers from other Ports, by the Corporation Vaccinators under the instructions of the Port Health Authorities and 6,347 vaccinations performed by the Private Medical Practitioners. The Table below gives the comparative figures for three years:—

Year.	Vaccinations in Town by Corporation Staff.		Vaccinations by Private Medical Practitioners.		Ship Vaccina- tions.	Total.
	Primary.	Re-vaccina- tions.	Primary.	Re-vaccina- tions.		
1931-32	13,118	108,263	231	6,116	156,537	284,265
1930-31	8,176	16,104	220	112	182,247	206,859
1929-30	9,406	21,002	230	325	216,854	247,817

The number of successful vaccinations was 28,249 showing an increase of 16,818 as compared with the figures of 1930-31 and an increase of 17,627 as compared with the figures of 1929-30.

10,143 children under the age of six years were successfully vaccinated showing an increase of 3,965 and 2,777 as compared with the figures of 1930-31 and 1929-30 respectively.

6,147 vaccinations were performed in the Rangoon Central Jail by the Jail staff.

### Staff.

The total number of Vaccinators employed during the year was 21 excluding 11 Lady Health Visitors and Nurse-Midwives who help to a

slight extent in vaccinating women and children. 20 temporary Vaccinators were also entertained during the latter part of the year on account of a severe outbreak of Small-pox.

The work of these Vaccinators is supervised by the Assistant Health Officers and Medical Registrars of the respective divisions.

The four temporary Vaccinators entertained in July 1928 for vaccination of incoming passengers from other Ports continued to work at the Port Health Station under the supervision of the Port Health Officer.

### **Cost.**

The cost per head per vaccination during the year was 0-2-1 and that of each successful case was Rs. 1-5-4 as compared with 0-2-11 and Rs. 3-4-0 respectively in the year 1930-31, details of which are given below:—

Year.	Primary vaccination in Town.	Re-vaccination in Town.	Ship vaccinations.	Total vaccinations.	Total successful cases (Town and Private Medical Practitioners).	Total expenditure including salaries of Assistant Registrars-Vaccinators.	Average cost per successful vaccination.	Average cost per vaccination.
1931-32	13,349	114,379	156,537	284,265	28,259	Rs. 40,837 A. P. 0 0	Rs. 1 A. P. 7 1	Rs. A. P. 0 2 4
1930-31	83,96	16,216	182,247	206,859	11,431	37,154 A. P. 6 9	3 A. P. 4 0	Rs. A. P. 0 2 10

The average cost of each successful vaccination performed by the Special Staff in the Town was Rs. 1-2-9 and that of each vaccination was Rs. 0-4-2.

### **Lymph.**

3,219 tubes of vaccine lymph were brought forward from last year and 1,12,406 tubes were obtained from Meiktila during the year. 45,095 tubes were issued to the Corporation Vaccinators, 53,179 to the Port Health Station and 6,300 to Private Medical Practitioners and 390 were destroyed, leaving a balance of 10,561 tubes at the end of the year.

### **Prosecutions.**

63 cases were sent up for prosecution for failure to report Small-pox cases in time. Of these prosecutions, 9 were convicted, 1 was struck off and 2 withdrawn. 51 cases are still pending in Court.

6 prosecutions were instituted under the Vaccination Act. 4 parties were convicted, 1 acquitted and 1 case was withdrawn.

## **Small-pox.**

The total number of attacks was 1,363 with 364 deaths as compared with 34 attacks and 6 deaths during the year 1930-31 and 43 attacks and 14 deaths during the year 1929-30.

House to house inspection gangs were formed to detect all suffering cases, to send them to the Contagious Diseases Hospital and to carry out immediate vaccination of contacts and disinfection of all the clothing, bedding and the premises.

Annual inspection of School children is generally carried out in the months of June and July and all children found unprotected are vaccinated or served with notices to be vaccinated.

During the year under report 222 schools were inspected and out of 34,051 children inspected 12,652 were vaccinated.

Systematic inspection and vaccination of all Mills and Cooly barracks are carried out from January to March during the time when immigration is at its height. 93 Mills were inspected and out of 14,982 mill hands inspected, 9,159 were vaccinated.

## **Personnel of the Health Department.**

Dr. K. R. Dalal, L.M. & S., D.T.M., D.P.H., Health Officer, continued to be in charge of the Health Department up to the 2nd November 1931 when he proceeded on leave preparatory to retirement.

Dr. J. Hormasji, D.P.H., was appointed Health Officer and assumed charge of his duties on the forenoon of the 3rd November 1931.

Dr. N. S. Kotwall, M.B., B.S. (Bombay), D.P.H., Assistant Health Officer, was on leave for 2 months and 9 days from the 3rd February to the 11th April 1931. Dr. S. Rodriguez, M.B., C.H.B. (Edin), D.P.H., Assistant Health Officer, was on 2 months' leave from the 25th July 1931. No substitutes were taken on in their places and departmental arrangements were made for their work. The appointment of the fifth Assistant Health Officer was vacant.

Dr. B. P. Srivastava, M.B., B.S. (Bombay), D.P.H., Assistant Health Officer, proceeded on 18 months' leave from the forenoon of the 1st December 1931 and Dr. J. H. Writer, L.M. & S., D.P.H., was appointed Acting Assistant Health Officer from the same date.

Mrs. D. Mc Gangolli, M.Sc., B.A., Analyst, continued to be in charge of the Laboratory during the year.

Before concluding it is but right that I should place on record the loyal and devoted services rendered by the Assistant Health Officers and their Subordinates, the Lady Health Assistants and their Staff, the Laboratory

and Contagious Diseases Hospital Staffs and the Superintendent and Clerks. They all had a very strenuous work to do, especially during the epidemic of Small-pox which soon spread throughout the City. It was through the whole-hearted co-operation and ungrudging work of my Staff, that the disease was soon brought under control. I thank them all for their help.

J. HORMASJI, D.P.H.,

RANGOON :

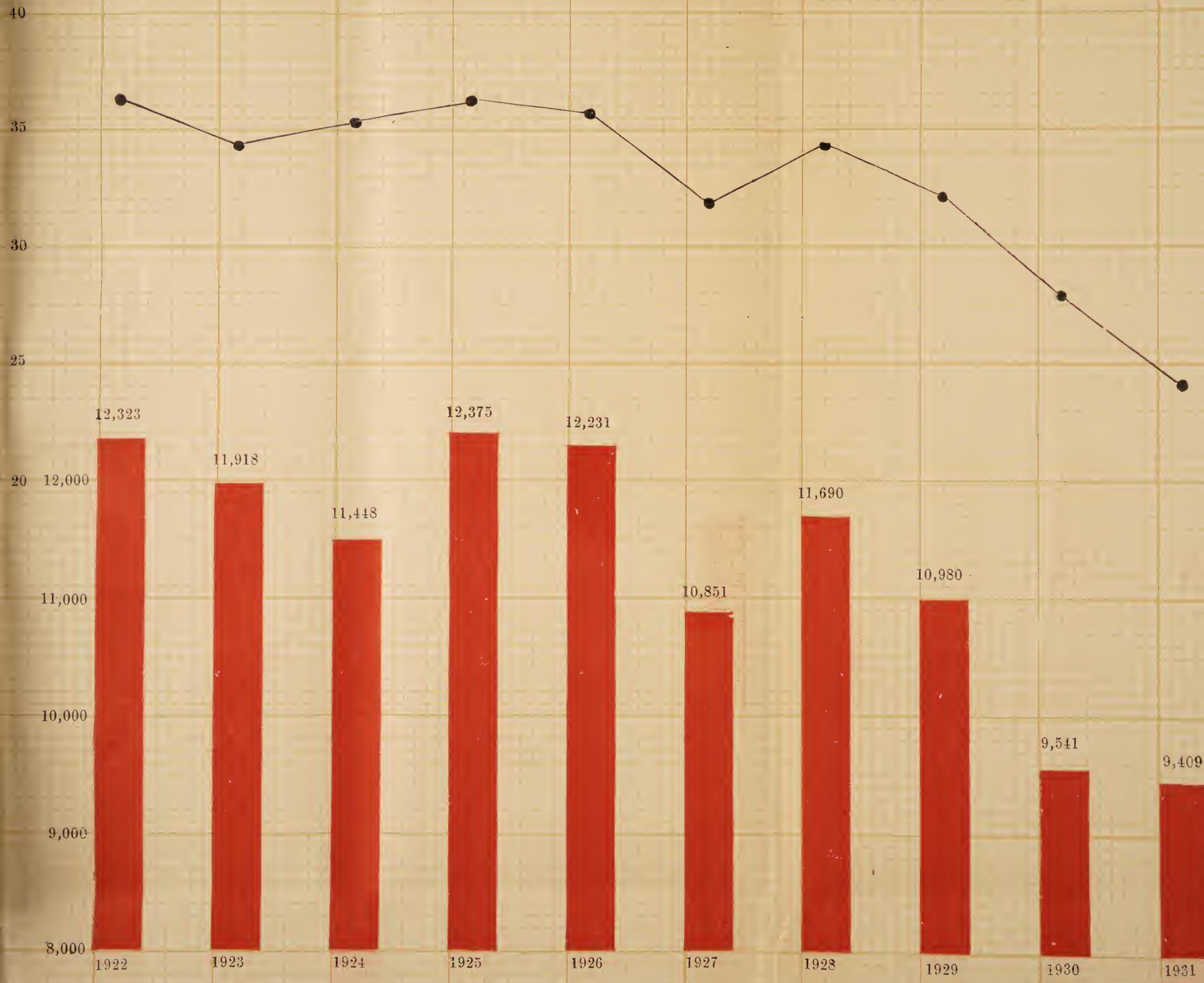
Dated 27th May, 1932. }

*Health Officer,*

*Corporation of Rangoon.*



GENERAL DEATH RATE PER 1000 OF THE CENSUS POPULATION.  
TOTAL NUMBER OF DEATHS FOR THE PAST TEN YEARS.



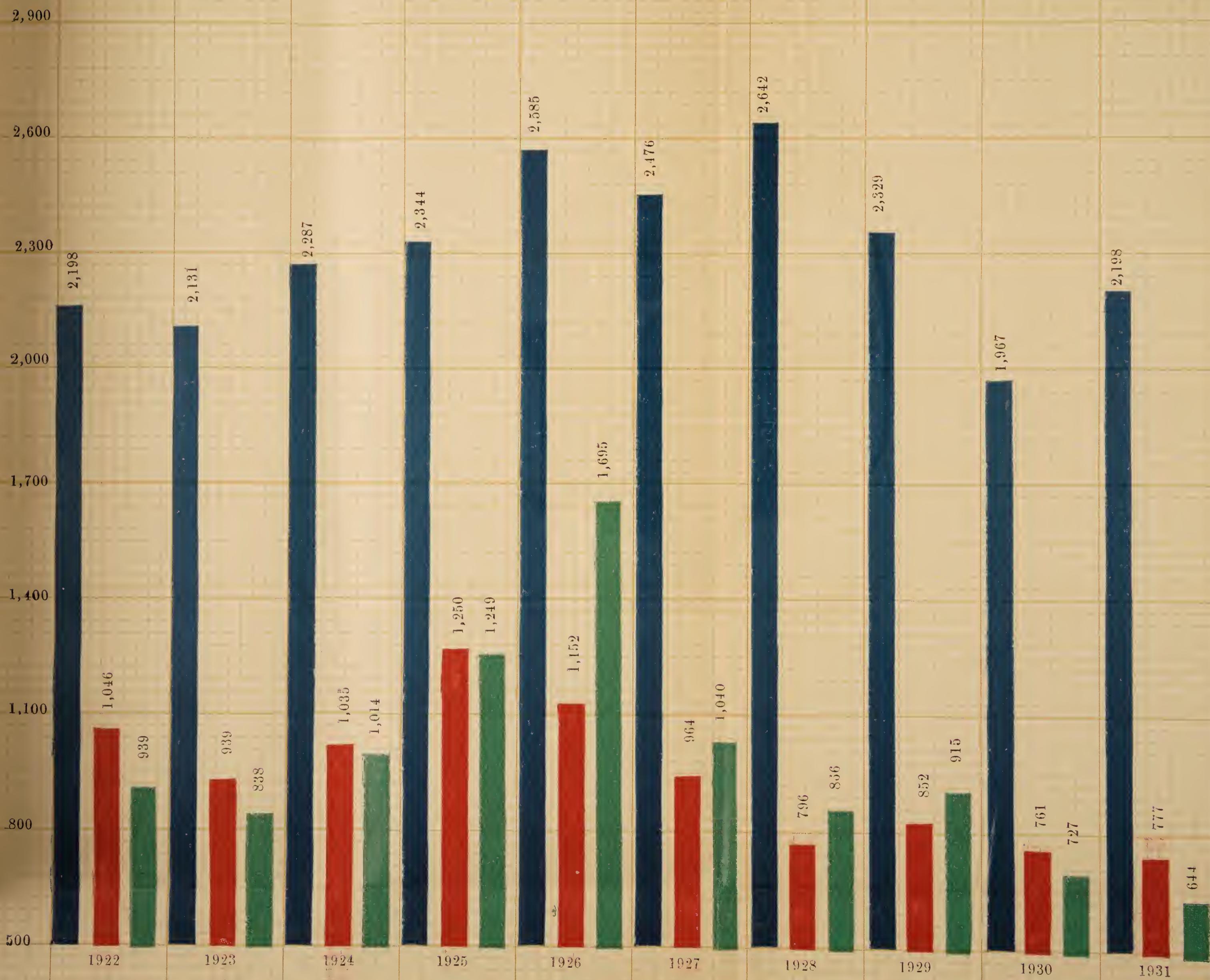


TOTAL NUMBER OF DEATHS FROM PLAGUE, SMALL POX AND CHOLERA FOR THE PAST TEN YEARS.





TOTAL NUMBER OF DEATHS FROM:-  
RESPIRATORY DISEASES.  
TUBERCULOSIS.  
DIARRHOEA-DYSENTERY.





# ANNUAL REPORT

## ON THE

## WORKING OF THE CONTAGIOUS DISEASES

## HOSPITAL, RANGOON

*For the year ending 31st December 1931.*

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**Population of Rangoon 4,00,415.**—This report has been drawn up in accordance with the instructions contained in the Circular Memorandum No. 14690—1R-2, dated Rangoon, the 14th October 1931, issued by the Inspector-General of Civil Hospitals, Burma, and all the information given here follows the sequence given therein and the paragraphs have been correspondingly numbered for purposes of reference.

### I.—Class of Hospital and Date of opening.

This hospital was transferred to the Municipal Committee of Rangoon on the 1st October 1920 and would thus be placed under the Classification—Class III Local Fund.

### II.—Hospital Buildings.

These consist of three main groups of buildings for the accommodation of patients, the first group consisting of nine large wards and holding 228 beds is reserve for Burmese and Indian male patients ; the second, of three small wards containing 24 beds in all for the female patients of the same two communities and the third, of three wards with 18 beds for European and Anglo-Indian patients of both sexes.

**Structure.**—The first two groups of buildings have a raised pucca flooring with bamboo mat walling and dhunee leaf roofing and the third has a pucca flooring with asbestos tile roofing.

### Subsidiary Buildings.

(1) A main building consisting of three rooms, one of which is used as the office, the other as a Dispensary and the third as Sub-Assistant Surgeon's Duty room.

(2) Kitchens—three in all—one for Burmese and Indian patients, the second for the Europeans and Anglo-Indians and the third has been reserved for the Hindus who refuse to take food handled by others owing to caste scruples.

- (3) Nurses' Duty room.
- (4) Quarters for the menial staff.
- (5) Mortuary.
- (6) Store-rooms.
- (7) Dhoby Wash-house.

All these buildings are located in different parts of the compound according to their needs and convenience.

### **III.—Hospital Equipment.**

There is nothing in particular to state regarding the Surgical and General Equipment of this hospital. Everything necessary for its proper maintenance has been maintained.

### **IV.—Hospital Staff.**

Dr. K. P. Pillai, M.B., B.S., D.P.H., was in charge of the Hospital from the 1st January 1931 to the 18th May 1931 and again from the 5th August till the end of the year except for a short interval when the H.O. himself supervised the Hospital work. Dr. B. P. Srivastava, M.B., B.S., D.P.H., held charge from the 19th May to the 4th August.

The subordinate medical staff of the hospital during the year under report consisted of the following :—

1 Medical Officer.	16 Ward Sweepers.
1 Assistant Surgeon.	6 Female Sweepers.
3 Sub-Assistant Surgeons.	2 Cooks.
1 Sister-in-charge.	1 Waterman-Lampman.
7 Nurses.	2 Office Peons.
1 Clerk Steward.	2 Gate Durwans.
2 Compounders.	2 Dhobies.
16 Wardboys.	1 Mali.
6 Female Attendants.	

The three Sub-Assistant Surgeons work in shifts of two for day and one for night duty in rotation so that there is one Sub-Assistant Surgeon always on duty both day and night. The Nurses work in shifts of four for day and three for night duty in rotation. The wardboys, ward sweepers, female attendants and female sweepers work in shifts of half for day and half for night. The Sister-in-charge is responsible for the work of Nurses and Ward attendants.

No extra temporary staff was engaged during the year under report.

## **V.—Hospital Management and Finance.**

Since the transfer of the hospital to the control of the Corporation, all the charges necessary for the proper up-keep of the hospital have been borne by the Corporation. The Government of Burma has been contributing Rs. 40,000 every year towards the maintenance of this and the Observation Hospital.

The following Table gives the number of patients admitted into the hospital from within Municipal limits as compared with those from outside the Municipal area during the year under report :--

Within Municipal limits.	Outside Municipal limits.	Total.
685	108	793

## **VI.—Hospital Patients—General Statistics.**

### Table No. I,

Diseases.	Patients remaining in hospital on 31st December 1930.	Number of patients admitted during the year 1931.	Total number treated.	Discharged cured.	Died.	Case mortality per cent.	Patients remaining in hospital on 31st December 1931.		
Plague	...	...	1	4	5	1	4	80·00%	...
Cholera	...	...	...	8	8	6	2	25·00%	...
Small-pox	...	...	...	65	65	41	11	16·92%	13
Chicken-pox	...	...	3	351	354	314	...	...	40
Measles	...	...	13	175	188	187	1	0·53%	...
Mumps	...	...	...	29	29	25	...	...	4
Diphtheria	...	...	1	9	10	8	2	20·00%	...
Erysipelas	...	...	2	7	9	7	2	22·22%	...
Influenza	...	...	...	...	...	...	...	...	...
Cerebro-Spinal Meningitis	...	...	1	1	...	...	1	100·00%	...
Diarrhoea	...	...	...	7	7	4	3	42·86%	...
Adenitis	...	...	...	9	9	8	...	...	1
All other diseases	...	1	128	129	107	21	16·28%	1	
GRAND TOTAL	...	21	793	814	708	47	5·77%	59	

(a)

**Table No. II.**

1929.			1930.			1931.		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total,
797	97	894	721	128	849	673	141	814

**Table No. III.**

Voluntary Admissions.			Those sent by the Health Department, Port Trust Authorities, Rangoon General Hospital, Sri Rama Krishna Hospital, etc.		
1929.	1930.	1931.	1929.	1930.	1931.
332	333	303	562	516	511

(b) The total number of cases treated during the year under report was 814 of which 673 were males and 141 females, compared with the corresponding figures of 894, 797 and 97 of the year 1929 and 849, 721 and 128 of 1930.

The total number of voluntary admissions was 303 compared with 332 in 1929 and 333 in 1930.

The following Table gives the percentage of voluntary admissions to the total number treated during the year as compared with that of the two previous years:—

**Table No. IV.**

1929.	1930.	1931.
37·14	39·22	37·22

(c) The daily average attendance as compared with the two previous years was as follows:—

**Table No. V.**

1929.	1930.	1931.
35	32	31

The largest member treated on any one day during the year was as follows:—

**Table No. VI.**

1929.	1930.	1931.
131	114	97

The respective dates on which this happened were the 7th March 1929, 21st March 1930 and 2nd March 1931.

(d) The following Table gives the total number of deaths and death-rate percent:—

**Table No. VII.**

1929.	1930.	1931.
103 per cent.	11·52 per cent.	69 8·13 per cent.

The total number of deaths during the year under report was 47 giving a death-rate of 5·77 per cent. as compared with 103 and 11·52 of the year 1929 and 69 and 8·13 per cent. of the year 1930.

The general death-rate in an infectious diseases hospital is liable to great fluctuation according to the epidemic prevalence of one or more diseases. In this way only can we account for the lower death-rate in the year under report compared with the previous two years.

The total number of beds available in the hospital for males and females is as follows:—

Males.	Females.	Total.
240	30	270

The following Table gives the percentage proportion of the different races treated:—

**Table No. VIII.**

Year.	Europeans and Anglo-Indians.	Burmese.	Mohammedans.	Hindus.	Other Classes.
1929	10·07	7·61	15·21	64·54	2·57
1930	11·54	6·48	15·67	63·72	2·59
1931	11·06	10·69	13·27	62·89	2·09

The largest number of admissions have been from the Hindus and Mohammedans. Of the total number of cases treated, there were 90 Europeans and Anglo-Indians, 87 Burmese, 108 Mohammedans, 512 Hindus and 17 Other Classes, giving a percentage proportion as shown in Table No. VIII.

VII.—*Prevailing Diseases:*—

**Table No. IX.**

Diseases.	1929.	1930.	1931.
Plague	39	18	5
Cholera	57	24	8
Small-pox	47	41	65
Chicken-pox	325	409	354
Measles	36	112	188
Mumps	170	48	29
Diphtheria	11	14	10
Erysipelas	9	13	9
Cerebro-Spinal Meningitis	2	2	1
Influenza	...	...	...

The following Table gives the total number of cases of different diseases treated during the year under report with the total number of deaths and the case mortality rate per cent. of the respective diseases as compared with the two previous years:—

**Table No. X.**

Diseases.	1929.			1930.			1931		
	Total No. treated.	No. of deaths.	Case morta- lity per cent.	Total No. treated.	No. of deaths.	Case morta- lity per cent.	Total No. treated.	No. of deaths.	Case mortality per cent.
Plague	39	30	76·92	13	14	77·77	5	4	80·00
Cholera	57	28	49·12	24	12	50·00	8	2	25·00
Small-pox	47	11	23·40	41	6	14·63	65	11	16·92
Chicken-pox	325	...	...	409	...	...	354	...	...
Measles	36	...	...	112	2	1·79	188	1	0·53
Mumps	170	...	...	48	...	...	29	...	...
Diphtheria	11	...	...	14	3	21·43	10	2	20·00
Erysipelas	9	1	11·11	13	1	7·69	9	2	22·22
Cerebro-Spinal Meningitis.	2	2	100·00	2	2	100·00	1	1	100·00
Influenza	...	...	...	...	...	...	...	...	...
Dirarhoca	7	...	...	4	1	25·00	7	3	42·86
Adenitis	12	...	...	6	...	...	9	...	...
All other diseases.	179	31	17·32	158	28	17·72	129	21	16·28

The 21 fatal cases recorded under all other diseases during the year were due to the following causes:—Dysentery 1, Pneumonia 6, Pyrexia of uncertain origin 2, Tuberculosis of the Lungs 1, Ankylostoma 2, General Debility 1, Coma 1, Valvular Disease of the Heart 1 and Gastro-Enteritis 6.

### **Plague.**

5 cases of Plague were treated during the year under report all of whom were males. There was 1 recovery and 4 deaths, giving a case mortality of 80·00 per cent. as compared with 76·92 per cent. of 1929 and 77·77 per cent. of the year 1930.

The following Table gives the duration of the illness on the day of admission into the hospital:—

**Table No. XI.**

Total No. treated.	On 1st day.	On 2nd day.	On 3rd day.	On 4th day.	More than 4 days.
5	2	2	...	...	1

The following Table gives a list of Plague cases that had proved fatal within six hours, twelve hours and twenty-four hours of their admission into the hospital:—

**Table No. XII.**

Total No. of deaths.	No. of deaths within six hours of admission.	No. of deaths within twelve hours of admission.	No. of deaths within twenty-four hours of admission.	Grand Total No. of deaths within twenty-four hours of admission.
4	...	...	1	1

The following Table gives the variety of the disease with the total number of admissions, deaths and the case mortality rate under their preselective heads:—

**Table No. XIII.**

Varieties.	Total No. treated.	No. recovered.	No. died.	Case mortality rate per cent.
Cubonic	...	5	1	80·00%
Pneumonic	..	...	...	...
Pepticaemic	...	...	...	...
Sutaneous	...	...	...	...

**Table No. XIV.**

Month.	No. admitted.	No. cured.	No. died.	Case mortality.
Remaining from previous year.	1	1	...	...
January	...	...	...	...
February	...	...	...	...
March	...	...	...	...
April	...	...	...	...
May	...	...	...	...
June	1	...	1	100·00%
July	...	...	...	...
August	1	...	1	100·00%
September	...	...	...	...
October	...	...	...	...
November	1	...	1	100·00%
December	1	...	1	100·00%
GRAND TOTAL	5	1	4	80·00%

**Cholera.**

8 cases of Cholera were treated during the year of which 6 recovered and 2 died, giving a case mortality of 25·00 per cent. Of the 2 fatal cases, both died within twenty-four hours of admission.

Of the total of 6 cases treated in the hospital, 5 were given intravenous saline injections on one or more occasions as required and of these 3 recovered and 2 died. The remaining 3 who were not given any saline injections owing to their pulse and blood pressure being good, all recovered.

The following Table gives the number of cases admitted month by month during the year under report with their respective number of recoveries, deaths and the case mortality per cent.

**Table No. XV.**

Months.	No. admitted.	No. cured.	No. died.	Case mortality.
Remaining from previous year.	...	...	...	...
January	1	...	1	100·00%
February	...	...	...	...
March	...	...	...	...
April	...	...	...	...
May	2	1	1	50·00%
June	2	2	...	...
July	3	3	...	...
August	...	...	...	...
September	...	...	...	...
October	...	...	...	...
November	...	...	...	...
December	...	...	...	...
GRAND TOTAL	8	6	2	25·00%

### Small-pox.

65 cases of Small-pox were treated during the year of which 52 were males and 13 females. Out of 65 cases treated, 41 recovered, 11 died (and 13 were remaining at the end of the year) giving a case mortality rate of 16·92 per cent.

The following Table gives the total number of attacks and deaths in the males and females of the various Communities :—

**Table No. XVI.**

	Europeans and Anglo- Indians.		Burmese.		Moham- medans.		Hindus.		Other classes.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Attacks	...	...	1	4	4	8	2	37	7	1	1
Deaths	...	...	...	...	2	2	1	4	...	1	1

The following Table gives the seasonal variation of Small-pox during the year as compared with the previous two years :—

**Table No. XVII.**

		1929.	1930.	1931.
Remaining from previous year	...	...	1	1
January	...	...	7	5
February	...	...	14	3
March	...	...	12	9
April	...	...	7	3
May	...	...	1	5
June	...	...	...	10
July	...	...	2	3
August	...	...	...	1
September	...	...	...	3
October	...	...	1	2
November	...	...	1	1
December	...	...	1	16
GRAND TOTAL	...	47	41	65

Vaccinal condition of Small-pox during the year :—

(a) Total number of protected cases—44.

The following Table gives a Statement of the protected cases :—

**Table No. XVIII.**

No. protected by vaccination.	No. vaccinated and had previous attack of Small-pox.	No. unvaccinated but had previous attack of Small-pox.	No. inoculated.	Total No. protected.
44	...	...	...	44

(b) The total number of unprotected cases was 21.

(c) Statement of adults and children protected and unprotected.

**Table No. XIX.**

Protected.		Unprotected.	
Adults.	Children.	Adults.	Children.
44	...	17	4

(d) Statement of attacks amongst the unprotected.

**Table No. XX.**

Variety:	1929.			1930.			1931.			
	No. of cases.	No. of deaths.	Case morta- lity rate.	No. of cases.	No. of deaths.	Case morta- lity rate.	No. of cases.	No. of deaths.	Case morta- lity rate.	
Modified	...	...	...	...	...	...	1	...	...	
Discrete	...	1	...	2	...	...	5	...	...	
Confluent	...	11	6	54·54	9	3	33·33	13	7	53·84
Haemorrhagic	...	...	...	1	1	100·00	2	2	100·00	
Total	...	12	6	50·00	12	4	33·33	21	9	42·86

## (e) Statement of attacks amongst the protected.

Variety.	1929.			1930.			1931.		
	No. of cases.	No. of deaths	Case mortality.	No. of cases.	No. of deaths	Case mortality.	No. of cases.	No. of deaths.	Case mortality.
Modified ...	7	...	...	9	...	...	6	...	...
Discrete ...	12	...	...	7	...	...	26	...	...
Confluent ...	15	5	33·33	11	...	...	11	1	9·09
Haemorrhagic	1	...	...	2	2	100·00	1	1	100·00
Total ...	35	5	14·28	29	2	6·90	44	2	4·54

The following Table gives the total number of admissions, recoveries and deaths with case mortality rate of all the cases of Small-pox treated during the year :—

**Table No. XXII.**

Total No. treated.	Recovered.	Died.	Case mortality rate per cent.	Remaining at the end of the year.
65	41	11	16·92	13

From the various Tables given above, it will be seen that out of a total of 65 cases of Small-pox treated in the hospital during the year 44 were found to be protected and 21 unprotected.

Of the 44 protected, 6 had an attack of the Modified type, 26 Discrete, 11 Confluent and 1 Haemorrhagic; of these 1 Confluent and 1 Haemorrhagic died.

Of the 21 unprotected cases which included 4 children, 1 had an attack of the Modified type, 5 Discrete, 13 Confluent and 2 Haemorrhagic. 7 out of the Confluent type and both the Haemorrhagic cases proved fatal.

Of the 4 unprotected children, 2 had Discrete and 2 had Confluent type of the diseases; one of the latter died.

The ages of the unprotected children were as follows :—

Age.	0—12 months.	1—5 years.	5—10 years.	Total.
No. of children	1	2	1	4

Of the two fatal cases amongst the protected group, the following vaccinal conditions were noted :—

Character of vaccination.	One mark.	Two marks.	Three marks.	More than three marks.
Faint ...	...	...	1	...
Moderate ...	...	...	1	...
Prominent ...	...	...	...	...

The age group of the two fatal cases was as follows :—

1—5 years.	5—10 years.	10—20 years.	20—30 years.	30—40 years.	Above 40 years.	Total.
...	...	...	2	...	...	2

The following Table gives the total number of cases, varieties and case mortality rate amongst the protected and the unprotected.

**Table No. XXIII.**

Variety.	Protected.			Unprotected.		
	Admitted.	Died.	Case mortality rate.	Admitted.	Died.	Case mortality rate.
Modified ...	6	...	...	1	...	...
Discrete ...	26	...	...	5	...	...
Confluent ...	11	1	9·09	13	7	53·84
Haemorrhagic ...	1	1	100·00	2	2	100·00
Total ...	44	2	4·54	21	9	42·86

From a comparison of the above figures, it will be noted that the severity of the disease and the death-rate are much higher amongst those unprotected by vaccination as compared to those that are vaccinated. Out of 44 protected cases, only 2 died while out of 21 unprotected as many as 9 died. Nearly 71 per cent. of the latter were of the severe type.

The following Table shows the prevalence of Small-pox from the year 1911 till the end of the year under report as revealed by the number of patients admitted into the hospital from year to year :—

**Table No. XXIV.**

Year.	Attacks.	Deaths.	Case mortality rate.
1911	824	238	28·88
1912	399	84	21·05
1913	223	44	19·73
1914	62	6	9·67
1915	243	49	20·16
1916	733	162	22·10
1917	158	8	5·06
1918	199	37	18·59
1919	1,120	289	25·80
1920	371	36	9·70
1921	83	9	11·84
1922	215	24	11·16
1923	626	153	24·44
1924	660	55	21·15
1925	1,448	257	17·75
1926	121	19	15·70
1927	649	114	17·56
1928	1,109	218	19·66
1929	47	11	23·40
1930	41	6	14·63
1931	65	11	16·92

### **Chicken-pox.**

The total number of cases of Chicken-pox treated during the year under report was 354 which included 3 cases remaining from the previous year. The figure for 1929 was 325 and for 1930, 409. There was no death amongst the cases treated.

### **Measles.**

183 cases of Measles were treated during the year. There was one death from these patients due to Broncho-Pneumonia, giving a mortality rate of 0·53 per cent.; 187 recovered and there was none remaining at the end of the year. During 1929 36 cases were treated with no deaths and during 1930, 112 cases were treated with 2 deaths giving a case mortality rate of 1·79 per cent.

### **Mumps.**

29 cases were treated during the year compared with 170 cases in 1929 and 48 in 1930. There was no death.

## **Diphtheria.**

10 cases of Diphtheria were treated during the year. Of these 8 recovered and 2 died, giving a case mortality rate of 20·00 per cent. In 1929, 11 cases were treated with no deaths and in 1930, 14 cases were treated with 3 deaths giving a mortality rate of 21·43 per cent.

## **Erysipelas.**

9 cases of Erysipelas were treated including two cases remaining from the previous year. Of these 7 recovered and 2 died, giving a case mortality rate of 22·22 per cent. as compared with 9 cases and 1 death in 1929 and 13 cases and 1 death in 1930, giving a case mortality rate of 11·11 per cent. and 7·49 per cent. respectively.

## **Influenza.**

There were no cases of Influenza either this year or in any of the previous two years.

## **Cerebro-Spinal Meningitis.**

Only 1 case of Cerebro-Spinal fever was treated and proved fatal giving a rate of 100·00 per cent. mortality. 2 cases with 2 deaths, giving a mortality rate of 100·00 per cent. are the corresponding figures for each of the two previous years 1929 and 1930. Lumbar puncture was performed in all these cases.

## **Diarrhoea.**

7 cases of Diarrhoea were treated of which 3 died giving a mortality rate of 42·86 per cent. as compared with 7 cases and no deaths in 1929 and 4 cases, 1 death and a mortality rate of 25·00 per cent. in 1930.

## **Adenitis.**

9 cases of Adenitis were admitted into the hospital as cases of suspected Plague but the bacteriological examinations of the smears from the buboes were negative.

## **All Other Diseases.**

Under this heading have been included all other diseases noted under their respective nomenclature in Statistical Form Medical I

129 cases were included under this heading of which 21 proved fatal. These 21 fatal cases were Dysentery 1, Pneumonia 6, Pyrexia of uncertain origin 2, Tuberculosis of the Lungs 1, Ankylostoma 2, General Debility 1, Coma 1, Valvular Disease of the Heart 1 and Gastro-Enteritis 6.

VIII. All the Surgical work done at the hospital was of a minor character, such as opening buboes, lumbar puncture, etc.

## IX.—Expenditure.

		1929.	1930.	1931.
		Rs.	Rs.	Rs.
(1) Establishment	...	...	62,160	62,488
(2) Medicines	{ European Country	...	2,323	1,420
		...	267	179
(3) Diet	...	...	8,980	7,758
(4) Miscellaneous	...	...	4,314	5,326
(5) Buildings	{ New buildings Repairs	...	5,933	2,564
		...	644	5,340
		<hr/>	<hr/>	<hr/>
Total		...	84,621	85,165
		<hr/>	<hr/>	<hr/>
			81,698	

The increase under establishment is due to revised scale of pay for Nurses and Sub-Assistant Surgeons taking full effect during the year under report as well as the Clerk and Steward having gone on about eight months' leave.

The increase under Medicines was due to the fact that in 1930, some of the medicines remaining from 1929 were not indented for but in 1931, these having been finished, fresh ones had to be bought.

The decrease under diet was due to the small number of patients treated during the year under report compared with the previous two years, *viz.*, 894 in 1929, 849 in 1930 and 814 in 1931 as well as the duration of their stay in hospital as seen by the daily average, *viz.*: 35 in 1929, 32 in 1930, and 31 in 1931 and also due to the rates being cheaper in 1931.

The decrease under miscellaneous charges was due to stopping undertaking any expenditure on repairs of furniture, cots. etc.

The decrease under repairs to buildings was due to the peculiar nature of the buildings.

### Treatment of any note.

**Plague.**—No special treatment has been adopted beyond attempting to maintain the heart's action under cardiac stimulants such as Camphor in oil, Digitilin, Strychnine, etc.

**Cholera.**—The treatment advocated by Sir Leonard Roger has been adopted and has given satisfactory results.

**Small-pox.**—The eruptions are touched with a freshly prepared saturated solution of Potas Permanganas in Confluent cases, the entire body is painted with the same solution.

**Cerebro-Spinal Fever.**—No special treatment has been adopted beyond relieving the pressure by lumbar puncture and injecting anti-meningococcus serum, when necessary.

### **Concluding Remarks.**

I have to place on record the satisfactory manner in which the hospital staff, one and all, have carried out their duties. The *Times Press* has to be thanked for its generosity in supplying the hospital daily with its Newspaper.

K. P. PILLAI, M.B., B.S., D.P.H.,

RANGOON :

Dated 3rd February 1932. }      Medical Officer,  
                                  }      Contagious Diseases Hospital, Rangoon

# ANNUAL REPORT

## ON THE

## WORKING OF THE OBSERVATION HOSPITAL, RANGOON

*For the year ending the 31st December 1931.*

This hospital is purely an observation one for cases sent by the Port Health Authorities.

I. **Class of Hospital and Date of opening.**—This hospital was transferred to the control of the Corporation on the 1st October 1920 and comes under Class III, Local Fund.

II. **Hospital Buildings.**—These consist of three large wards measuring 80' x 20', constructed of pucca floor, mat walling and shingle roofing. Two of the wards are reserved for admission of male patients and the third for female patients. The hospital has accommodation for 80 beds.

### **Subsidiary Buildings.**

- (1) Sister's Quarters consisting of a plank building 4 feet off site.
- (2) Kitchen for the general use of the hospital.
- (3) Two extra cooking rooms for use of those patients who prefer to cook their own food.
- (4) Two sets of latrines for males and females respectively.
- (5) Separate washing and bathing places for the use of female patients.
- (6) Servants' Quarters and kitchens.

III. **Equipment.**—There is not much to say regarding the equipment of this hospital as this is used purely for observation purposes.

**IV. Staff.**—The following is a list of the Staff :—

2 Wardboys,	1 Cook.
2 Sweepers.	1 Lampman-Waterman.
1 Female Attendant.	2 Gate Durwans.
1 Female Sweeper.	1 Mali.

**V. Hospital Finance and Management.**—All the charges incidental to the proper upkeep of the hospital have been borne by the Corporation, the Local Government contributing Rs. 40,000 per year towards the maintenance of this and the Contagious Diseases Hospital.

**VI. Hospital Patients**—

1929.			1930.			1931.		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
645	91	736	463	48	511	659	55	714

The total number of cases treated during the year was 714 as compared with 736 in the year 1929 and 511 in 1930.

*Daily average attendance* :—

1929.	1930.	1931.
6	4	6

The largest number of cases in the hospital on any one day was 38 compared with 34 in the year 1929 and 18 in 1930. The respective dates on which this occurred were 10th June 1931, 30th October 1929 and 11th November 1930.

There was no death during the year under report. This hospital is used only for observation purposes and any case showing any signs of illness is immediately transferred to the Contagious Diseases Hospital.

The following Table shows the percentage proportion of various Communities treated :—

Year.	Europeans and Anglo- Indians.	Burmese.	Moham- medans.	Hindus.	Other Classes.
1929	... 0·00	0·41	28·80	66·31	4·48
1930	... 0·00	0·20	29·94	65·56	4·30
1931	... 0·00	0·28	30·39	67·79	1·54

The following Table gives the total number of cases found suffering from various diseases on or after admission into the hospital:—

Diseases.	1929.	1930.	1931.
Plague ...	...	...	...
Cholera	...	...	...
Small-pox	...	...	...
Chicken-pox	...	1	...
Measles	...	2	2
Mumps	...	2	...
Diphtheria	...	...	...
Erysipelas	...	...	...
Cerebro-Spinal Meningitis	...	...	1
Influenza	...	...	2
Diarrhoea	...	1	2
Adenitis	...	1	3
No appreciable disease	...	257	203
All other diseases ...	472	299	435
Total ...	736	511	714

Out of the total number of 714 cases treated during the year, 271 had no appreciable disease, giving a percentage of 37·95 to the total treated.

The 435 cases shown under all other diseases consisted of 399 cases of fever which came down in a few days and the following other diseases:—

Dysentery 2.	Pneumonia 10.	General Debility 1.
Enteric Fever 1.	Tuberculosis of the lung 2.	Asthma 2.
Gonococcal Infection 1.	Other Tubercular diseases 1.	Diseases of the Areolar tissue 3.
Syphilis 4.	Ankylostoma 1.	Diseases of the Skin 1.
Malaria 5.	Anaemia 1.	Local diseases 1.

There were only 7 cases of infectious diseases treated during the year out of a total of 714, giving a percentage of 0·98 to the total treated. They were Chicken-pox 1, Measles 4, Mumps 1 and Cerebro-Spinal Meningitis 1.

#### Expenditure—

	1929.	1930.	1931.
	Rs.	Rs.	Rs.
Establishment ...	2,739	2,725	2,445
Diet ...	390	240	212
Miscellaneous charges ...	250	802	230
Total ...	3,379	3,767	2,887

The decrease under "Establishment" was due to some staff going on leave and not filling up the leave vacancies.

The decrease under "Diet" was due to the cheaper rates of the various articles of diet.

The decrease under "Miscellaneous" was due to no expenditure having been undertaken on electrical connections, rewiring as was done in 1930.

No expenditure has been shown under "Medicines" as this is supplied by the Contagious Diseases Hospital.

K. P. PILLAI, M.B., B.S., D.P.H.,

RANGOON:

Dated, 3rd February 1932.

MEDICAL OFFICER,

*Municipal Observation Hospital,*

*Rangoon.*

# ANNUAL REPORT

ON THE

## WORKING OF THE CORPORATION LABORATORY

*For the year 1931.*

The report is divided into three heads :—Chemical, Bacteriological and Miscellaneous.

### Chemical.

During the year a total of 1,766 samples were analysed compared to 1,303 in 1930.

These consisted of the following :—

1. *Water.*—336 samples were analysed from the following sources :—

Source.				No. of samples.
Hlawga Lake (monthly samples)	...	...	...	12
Taps, Stand-pipes, etc.	...	...	...	1
Well	...	...	...	8
Tube Well	...	...	...	21
At Hlawga	...	...	...	286
From Hlawga for suspended matter only	...	...	...	8
		Total	...	336

Water samples at Hlawga were examined as usual by the Assistant Analyst in connection with the Chlorination of water. During the year the dose of Chlorine varied from 0·8 to 1·4 parts per million and the amount of available Chlorine was all along maintained at 0·5 to 0·6 parts per million.

8 samples were received from the Assistant Engineer, Hlawga, for the estimation of suspended matter in water taken from leaks in the different dams ; the amount was quite insignificant in all the samples.

2. *Water and Aerated Water Samples for Lead.*—60 samples were examined of which lead was present in 17. These were received from Aerated Water Factories whose samples showed presence of lead and this examination led to the location of places from where water absorbed lead. This mode of location by elimination helped some of these factories to renew or repair their pipes and plants.

3. *Aerated Waters mainly Lemonade.*—40 samples were examined for presence of metallic poisons of which 11 were found unsatisfactory. The contamination was chiefly traceable to lead.

4. *Crude Sewage.*—7 samples were reported in 1931. This work was undertaken by this Laboratory as recommended by the Sewage Disposal Committee (1931). Samples are collected weekly at the Monkey Point Outfall by the Water and Sewage Department since the last week of October 1931.

5. *Milk.*—9 samples were examined ; all conformed to the standard.

6. *Condensed Milk.*—144 samples were examined with the following results :—

Nature.	Conforming to standard.	Not conforming to standard.	Total.
Full cream, sweetened, condensed	38	5	43
Skimmed, sweetened, condensed	35	25	60
Full cream, unsweetened, evaporated.	27	5	32
Sterilised, Natural ...	4	...	4
Total ...	104	35	139

5 other samples (unclassified) were examined as to their wholesomeness or otherwise and of these only one was found to be unwholesome due to fermentation of the contents.

7. *Butter.*—31 samples were analysed of which 8 did not conform to the standards in one respect or another. 12 samples showed presence of Boric Acid.

8. *Cream.*—4 samples were examined and all were found wholesome.

9. *Cheese*.—3 samples were examined of which 2 were found unwholesome due to putrefactive changes probably caused by defective tinning.

10. *Ghee*.—4 samples were examined of which 3 were adulterated.

11. *Oils*.—18 samples of oils were examined of which 14 were found adulterated chiefly with cheaper oils. Adulteration with "White Oil" was not met with.

12. *Sweets and Sweetmeats*.—13 samples consisting mainly of Indian sweets, Chinese cakes and Biscuits were examined of which 3 samples only were unwholesome.

13. *Coffee Powder*.—12 samples were examined of which 10 were adulterated with varying proportions of starch or chicory or both.

14. *Tea*.—17 samples were analysed of which 6 did not conform to the Bengal Standard.

15. *Cocoa*.—Only 2 samples were analysed and both contained added starch.

16. *Sausages*.—3 were examined of which 1 showed presence of SO<sub>2</sub> as preservative exceeding the permissible limit.

17. *Baking Powder and Custard Powder*.—4 samples were examined of which 2 were unwholesome.

18. *Curry Powder and Chilly Powder*.—5 were examined of which 3 were unwholesome.

19. *Tinned Food*.—26 samples were examined of which 8 were unwholesome, chiefly due to the presence of metallic poisons.

20. *Patent Foods*.—5 samples were examined of which only 1 (Glaxo) was unwholesome due to excessive rancidity.

21. *Damaged Goods*.—A sample each of Cod Liver Oil and Carbolic Soft Soap were examined for the detection of damage due to Acetic Acid. The wrappers were found impregnated with the acid while the contents were intact.

One sample of damaged cloth was examined for evidence of Sea water with positive results.

22. *Miscellaneous.*—

(a) The following samples were examined and found wholesome:—

Rice	...	3
Flour	...	3
Bread and Nanroti	....	9 (one sample showed a trace of alum).
Vinegar and Chinese Sauce		9
Jaggery	....	4
Syrup	....	3
Margarine	....	1
Starch	...	1
Curry	....	1
Common Salt	....	1
Natural Mineral Water		1
		—
Total	....	36
		—

(b) Other Miscellaneous samples examined for general analysis included the following:—

Grease and Oil Mixture	...	...	1
Izal Powder	...	...	1 (available Chlorine 68·1%)
Sediment from Water Mains	...	...	1
Coal	...	...	4
Pitch	...	...	1
Tar	...	...	1
		—	
Total	...	9	
		—	

23. *Urine.*—978 specimens were examined as against 804 in 1930 from the following sources:—

Source.	1930.	1931.
Contagious Diseases Hospital	36	41
Corporation Dispensaries and Depots	151	217
Private Medical Practitioners	617	717
Total	804	975

## Bacteriological.

34,660 specimens were examined in all during the year under report.

1. *Water*.—256 samples were examined from the following sources:—

Source.				No. of samples.
1. Hlawga Lake, Chlorinated	...	...	...	52
2. Do Unchlorinated	...	...	...	52
3. Laboratory Tap	...	...	...	52
4. Tube Well	...	...	...	50
5. Taps, Stand-pipes, etc.	...	...	...	40
6. Wells and Tanks	...	...	...	10
				Total ...
				256

The simultaneous examination of samples taken from the first three sources every week designed to study the effect of Chlorination on the Bacteriological purity of water was continued as usual throughout the year.

Chlorinated water showed as in previous years a very high standard of bacteriological purity and equally satisfactory results were obtained in the case of samples taken direct from the mains in the town.

Of the 50 tube well water samples examined, only 7 showed Lactose Fermentors in 10 c. cs. and less while the remaining were of a high standard of purity.

2. *Aerated Water*.—31 samples, chiefly Soda Water, were examined of which only 3 showed a low standard of purity.

3. *Disinfectants*.—Six samples were examined for Carbolic Coefficient.

4. *Miscellaneous*.—4 samples, 2 of sweetmeats and 2 of cheese were examined for evidence of bacterial putrefaction with positive results in the case of the cheese samples.

5. *Rats.*—31,884 rats were examined for Plague Bacilli this year against 33,957 in 1930, of which 36 (as against 50 in 1930) were found infected as shown in the following table:—

Circles.	Total No. of Rats.	No. found infected.
Newly Added Area	3	...
North Kemmendine	4,307	2
South Kemmendine	3,256	...
Lanmadaw	1,221	2
Taroktan	1,882	5
North-West Town	2,721	5
South-West Town	1,359	3
North-East Town	3,182	4
South-East Town	1,623	4
Botataung	3,220	2
Yegyaw	703	...
Theinbyu	3,179	8
Tamwe	1,391	1
Cantonment	3	...
Dalla	2,338	...
Kanaungto	1,466	...
Port Health Office	30	...
Total	31,884	36

Of the infected rats, 8 were Mice, 3 Ganamas Bengalensis and 25 Rat Concolor.

6. *Pathological Specimens.*—2,479 specimens were examined in all during the year as against 2,216 in 1930.

#### Blood.

M. P.	...	156
P. B.	...	13
T. A. B.	...	24
K. A.	...	17
L. D. Bodies	...	16
B. Lepra	...	1
Differential Count	...	84
Total count	...	18
Haemoglobin	...	34
Total	...	363

**Stool.**

C. B.	...	68
Amoeba, Cysts	...	337
Ova, Ankylo	...	316
Ova, Round worm	...	325
Other Ova	...	29
B. Shiga	...	34
B. Flexner	...	18
T. B.	...	11
T. A. B.	...	1
	Total	...
		1,139

**Sputum.**

T. B.	...	239
Penumococci	...	156
Streptococci	...	112
Staphylococci	...	171
B. Influenza	...	44
Micro Catarrhalis	...	5
	Total	...
		727

**Throat Swab.**

B. Diphtheria	...	129
---------------	-----	-----

**Nasal Swab.**

B. Lepra	...	2
----------	-----	---

**Gland Smear.**

Plague Bacilli	...	13
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**Pus, Urethral and other Discharges.**

Gonococci	...	43
Staphylococci	...	4
T. B.	...	1
Sp. Pallida	...	6
B. Ducre	...	1
	Total	...
		55

**Cerebro-Spinal Fluid.**

Meningococci	...	1
--------------	-----	---

**Urine.**

B. Coli	...	9
Gonococci	...	33
Staphylococci	...	1
	Total	...
		43

**Ulcer Scraping.**

B. Lepra	...	1
Staphylococci	...	1
	Total	...
		2

**Curry and Vomit.**

Cholera Bacilli

2

**Miscellaneous.**
 Pleural Fluid  
 Smear from Ulcer  
 Blood clot

 ...  
 ...  
 ...

 1  
 1  
 1

Total ... 3

Blood	...	363
Stool	...	1,139
Sputum	...	727
Throat Swab	...	129
Nasal Swab	...	2
Gland Smear	...	13
Pus, Urethral and other discharges	...	55
C. S. Fluid	...	1
Urine	...	43
Ulcer scraping	...	2
Curry and Vomit	...	2
Miscellaneous	...	3
GRAND TOTAL		2,479

7. The specimens tabulated above were received from the following sources:—

	Contagious Diseases Hospital.	Dispensaries.	Private Medical Practitioners.	Total.
Blood	...	48	287	363
Stool	...	291	761	1,139
Sputum	...	28	623	727
Throat Swab	...	23	7	129
Nasal Swab	...	...	2	2
Gland Smear	...	12	1	13
Pus, Urethral and other Discharges	6	7	42	55
C. S. Fluid	1	...	...	1
Urine	...	2	41	43
Ulcer Scraping	...	...	2	2
Curry	...	...	1	1
Vomit	1	...	...	1
Pleural Fluid	...	...	1	1
Smear from Ulcer	...	...	1	1
Blood clot	...	...	1	1
Total for 1931	410	299	1,770	2,479
Total for 1930	535	381	1,300	2,216

## Miscellaneous.

Miscellaneous work comprised of the following :—

(1) 8 packets were sterilised for different depots.

(2) The following materials were prepared and supplied to the Contagious Disease Hospital, Dispensaries and Depots and the Motor Transport Department :—

(a) Distilled water	...	...	626½ lbs.
(b) Fly Paste	...	...	57¾ lbs.
(c) Chlorine water	...	...	27½ lbs.

D. M. GANGOLLI, M. Sc., B.A.,

CORPORATION LABORATORY : }  
The 14th May 1932. }

*Analyst,*

*Corporation of Rangoon.*



## LIST OF TABLES.

	PAGES.
Meteorological data during the year 1931 ... ... ...	65

### **VITAL STATISTICS :—**

	PAGES.
1. Births by Registration Circles, 1931 ... ... ...	66
2. Statement of Deaths by Registration Circles, 1931 ... ... ...	67-68
3. Deaths by months for 1931 ... ... ...	69
4. Do Age and Registration Circles, 1931 ... ... ...	70-71
5. Do Class and do do ... ... ...	72
6. Infantile Mortality by Registration Circles, 1931 ... ... ...	73
7. Deaths from various Causes for three years by months ... ... ...	74-75
8. Do Cholera for the year 1931 by months ... ... ...	76
9. Do Small-pox do do ... ... ...	77
10. Do Measles do do ... ... ...	78
11. Do Plague do do ... ... ...	79
12. Do Enteric Fever do ... ... ...	80
13. Do Cerebro-Spinal Meningitis for the year 1931 by months... ...	81
14. Do Diphtheria for the year 1931 by months ... ...	82
15. Do Puerperal Septicaemia do ... ...	83
16. Do Malarial Fever do ... ...	84
17. Do Other Fevers including Influenza for the year 1931 by months ... ... ...	85
17A. Do Influenza for the year 1931 by months ... ... ...	86
18. Do Diarrhoea and Dysentery do ... ...	87
19. Do Tuberclse of Lungs do ... ...	88
20. Do Respiratory diseases excluding Tuberclse of Lungs for the year 1931 by months ... ... ...	89
21. Do Injuries for the year 1931 by months ... ... ...	90
22. Do All Other Causes do ... ...	91
23. Do Diarrhoea and Dysentery by Registration Circles and by classes during the year 1931 ... ... ...	92
24. Do Phthisis and Respiratory Diseases, Circle by Circle ... ...	93
25. Immigration and Emigration for the Port of Rangoon during the year 1931 ... ... ...	94
26. Burial Statement for the year 1931 ... ... ...	95-96

### **VACCINATION :—**

1. Statement of the total number of vaccinations performed during the year 1931-32 including those performed at the Port and the cost per case of Vaccination ... ... ... ...	97
1A. Statement showing particulars of cost of Vaccinations performed at the Port Health Station ... ... ... ...	98
2. Births and Vaccination of Infants under one year of age by Circles, 1931-32 ... ... ... ...	99

### **SANITARY :—**

1. Number of blockages cleared during 1931 ... ... ...	100-103
2. Number of Notices issued and served under different sections of the City of Rangoon Municipal Act, 1922, during the year 1931 ...	104-107
3. Number of cases prosecuted and amount of fines realised under different sections of the City of Rangoon Municipal Act, 1922, during the year 1931 ... ... ...	108-115
4. Statement of the summary of inspections made by the Sanitary Inspectors and Sanitary Works completed during the year 1931 ...	116-117
5. Statement of articles of unwholesome food and drink destroyed during the year 1931 ... ... ...	118-119

METEOROLOGICAL DATA FOR THE CITY OF RANGOON  
DURING THE YEAR 1931.

LATITUDE  $16^{\circ}46'$  NORTH.

LONGITUDE  $96^{\circ}18'$  EAST.

Height of Cistern of Barometer above Sea-level— $35.70$  feet (Reduced level.)

Months.	READING OF THERMOMETER.			Degree of humidity complete saturation being 100.	Prevailing direction of wind.	RAINFALL.			
	Dry.								
	Maximum.	Minimum.	Mean daily value.						
January	... 92.2	67.1	79.7	80	N. 23 E.	0.18			
February	... 96.0	69.0	82.5	82	N. 33 E.	0			
March	... 96.0	71.0	83.5	85	N. 42 W	0			
April	... 99.0	77.0	88.0	79	N. 72 W.	0			
May	... 94.0	78.0	86.0	81	S. 56 W.	13.70			
June	... 87.0	78.0	82.5	90	S. 5 W.	31.16			
July	... 85.6	76.0	80.8	91	S. 7 E.	25.94			
August	... 85.4	76.5	80.9	93	S. 18 W.	27.92			
September	... 87.0	77.4	82.2	91	S. 13 E.	17.93			
October	... 88.6	76.5	82.5	82	N. 74 E.	5.86			
November	... 90.4	72.0	81.2	76	N. 34 E.	0.0			
December	... 90.5	69.5	80.0	78	N. 17 E.	0.04			

# VITAL STATISTICS.

**TABLE No. 1.—Births registered by Registration Circles during 1931.**

Registration Circles.	POPULATION ACCORDING TO CENSUS 1921.	NUMBER OF BIRTHS REGISTERED.			RATIO OF BIRTHS PER 1,000 OF POPULATION.			MEAN RATIO OF BIRTHS PER 1,000 DURING PREVIOUS FIVE YEARS		
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Newly Added Area	2,027	1,516	3,543	86	114	200	42·43	75·20	56·45	75·44
North-Kemmendine	15,687	10,519	26,206	466	428	894	29·71	40·69	34·11	108·88
South-Kemmendine	20,910	11,003	31,913	595	578	1,173	28·45	52·53	36·76	102·94
Lannadaw	12,221	6,960	19,251	209	232	441	17·00	33·33	22·90	90·08
Taroktan	13,929	7,950	21,949	218	190	408	15·57	23·90	18·59	114·74
North-West Town	16,368	5,173	21,541	209	178	387	12·77	34·41	17·97	117·42
South-West Town	8,883	2,871	11,754	96	92	188	16·81	32·04	15·99	104·35
North-East Town	16,190	6,850	23,040	217	268	485	13·40	39·12	21·05	80·97
South-East Town	12,441	3,429	15,870	128	118	246	10·29	34·41	15·50	108·47
Botataung	13,648	5,671	19,319	251	212	463	18·39	37·38	23·96	118·39
Yegyaw	15,048	8,351	23,399	302	298	600	20·07	35·68	25·64	101·34
Theinbyu	23,288	13,912	37,200	552	577	1,129	23·70	41·47	30·35	95·67
Cantonment	4,540	1,931	6,471	27	21	48	5·95	16·87	7·42	128·57
Dalla	11,731	3,926	15,657	195	203	398	16·62	51·71	25·42	96·06
Kanaungto	11,158	4,599	15,757	222	224	446	19·89	48·71	28·30	99·11
Tamwe	20,541	10,393	30,934	556	499	1,055	27·07	48·01	34·10	111·42
Port Hospitals, and other Public Institutions	13,400	401	13,801	...	...	...	...	...	...	...
Adventitious population	...	...	...	...	...	...	...	...	...	...
Total ..	2,38,716	1,06,789	3,45,505	4,329	4,232	8,561	18·13	39·63	24·78	102·29
										2·45
										16·44
										34·97
										22·17

TABLE No. 2.—Statement of Deaths

1	2	3	4			5			6
			Population (Census 1921).			Number of Deaths Registered.			
Registration Circles.	Area in square miles.	Average population per square mile.	Male.	Female.	Total.	Male.	Female.	Total.	Number of deaths of males to every 100 deaths of females.
Newly Added Area ...	1.08	3,280.56	2,027	1,516	3,543	71	71	142	100.00
North Kemmendine ...	3.37	7,776.26	15,687	10,519	26,206	411	368	779	111.69
South Kemmendine ...	2.43	13,132.92	20,910	11,003	31,913	374	352	726	106.25
Lanmadaw ...	0.17	113,241.18	12,291	6,960	19,251	253	189	442	133.86
Taroktan ...	0.13	168,838.46	13,999	7,950	21,949	346	143	489	241.96
North West Town ...	0.13	165,700.00	16,368	5,173	21,541	159	116	275	137.07
South West Town ..	0.11	106,854.55	8,883	2,871	11,754	69	41	110	168.29
North East Town ...	0.17	135,529.41	16,190	6,850	23,040	152	121	273	125.62
South East Town	0.21	75,571.43	12,441	3,429	15,870	131	71	202	184.51
Botataung ... }	1.25	34,174.40	13,648	5,671	19,319	365	199	564	183.42
Yegyaw ... }			15,048	8,351	23,399	290	232	522	125.00
Theinbyu ...	1.39	25,762.59	23,288	13,912	37,200	521	516	1037	100.97
Cantonment ..	1.35	4,793.33	4,540	1,931	6,471	68	47	115	144.67
Dalla .. ... }	6.58	4,774.16	11,731	3,926	15,657	151	109	260	138.53
Kanaungto ... }			11,158	4,599	15,757	191	141	332	135.46
Tamwe .. ...	5.28	5,858.71	20,541	10,393	30,934	600	522	1122	114.94
Port ... ..	...	...	13,400	401	13,801	...	...	...	...
Hospitals and other Public Institutions ...	...	...	...	...	...	1531	488	2019	313.73
Adventitious population ...	...	...	6,566	1,334	7,900	...	...	...	...
Rangoon River, Pegu River and Pazundaung Creek ... ..	6.75	...	...	...	...	...	...	...	...
Total .. .	30.40	11,365.30	2,38,716	1,06,789	3,45,505	5,683	3,726	9,409	152.52

by Registration Circles during the year 1931.

TABLE No. 3.—Deaths by Registration Circles during each month of the year 1931.



Table No. 4.—Deaths registered according to

Registration Circles.	1	2		3		4		5		6				
	Under 5 years.						5 years and under 10 years.		10 years and under 15 years.		15 years and under 20 years.			
	Census population, 1921.				Population, Census, 1921.		Population, Census, 1921.		Population, Census, 1921.		Population, Census, 1921.			
	Male, 11,601. Under one year. Births.				One and under 5 years.		Male, 12,320. Female, 11,332.		Male, 15,097. Female, 10,624.		Male, 21,513. Female, 11,269.			
	*Deaths.		Deaths.		Deaths.		Deaths.		Deaths.		Deaths.			
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Newly added area	...	...	21	20	9	14	1	3	1	2	1	2		
North Kemmendine	...	...	112	102	47	54	10	9	6	3	8	10		
South Kemmendine	...	...	126	102	49	51	6	12	4	4	14	.		
Lanmadaw	...	...	68	49	28	23	3	1	2	2	2	6		
Taroktan	...	...	53	32	38	27	6	3	4	2	10	2		
North-West Town	...	...	51	38	11	19	2	...	5	1	2	5		
South-West Town	...	...	21	20	3	5	2	...	...	1	4	1		
North-East Town	...	..	45	43	17	16	1	3	...	1	5	4		
South-East Town	...	...	31	21	6	7	2	1	3	2	2	1		
Botataung	...	...	67	54	28	30	6	5	5	4	8	6		
Yegyaw	...	..	106	78	37	30	4	5	2	5	3	6		
Theinbyu	..	...	161	166	56	58	11	15	6	5	10	10		
Cantonment	...	...	24	9	7	8	1	3	1	...	1	1		
Dalla	...	...	39	39	17	9	5	3	...	...	4	4		
Kanaungto	...	...	56	49	10	22	5	8	2	4	9	1		
Tamwe	...	..	193	166	62	60	14	13	6	13	6	11		
Port	...	..	...	...	...	...	...	...	...	...	...	...		
Hospitals and other Public Institutions			110	109	34	30	13	11	21	8	32	23		
Total	...	1,284	1,097	459	463	92	95	68	57	121	101			
Ratio per mille	...	296·60		259·22										
Total deaths under 5 years	...	Male 1,743	Female 1,560											
Ratio per 1,000	...	150·25	135·50		7·47	8·38	4·50	5·37	5·62	8·96				

\* In the case of children under 1 year of age the ratio should be calculated on the number of The population figures on which ratio are to be calculated refer to the whole city under registr-

age by Registration Circles during 1931.

7		8		9		10		11		12	
20 years and under 30 years.		30 years and under 40 years.		40 years and under 50 years.		50 years and under 60 years.		60 years and upwards.			
Population, Census, 1921.		Population, Census, 1921.		Population, Census, 1921.		Population, Census, 1921.		Population, Census, 1921.		REMARKS.	
Male, 130,132.	Female.	Male.	Female, 41,082.	Male, 41,578.	Female.	Male.	Female, 16,259.	Male, 6,475.	Female, 4,710.		
Deaths.		Deaths,		Deaths.		Deaths.		Deaths.			
Male	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
5	6	3	5	5	1	6	4	19	14		
26	31	42	39	48	27	40	24	72	69		
39	43	39	22	20	20	23	32	54	58		
29	23	28	16	27	12	21	14	45	43		
25	10	43	19	60	11	54	16	53	21		
16	9	21	14	10	8	24	7	17	15		
8	3	8	4	9	4	9	...	5	3		
17	17	11	4	23	5	16	10	17	18		
23	8	23	6	10	3	8	2	23	20		
42	20	88	30	49	7	37	10	35	33		
21	21	22	21	28	15	30	11	37	40		
37	54	47	49	44	36	42	29	107	94		
6	4	5	6	2	4	6	2	15	10		
12	8	20	12	17	10	20	8	17	16		
21	5	20	9	16	8	17	11	35	24		
35	43	53	51	63	31	59	30	109	104		
...	...	...	...	...	...	...	...	...	...		
348	122	409	90	264	44	182	24	93	22	30 deaths excluded, age being unknown.	
710	427	882	397	695	246	594	234	753	604		
12·23		20·06		31·00		29·52		116·29	128·24		

births during the year, in all other cases on the number living at the time of census.  
tion.

TABLE No. 5.—Deaths registered according to Class by Registration Circles during the year 1931.

Registration Circles.	POPULATION ACCORDING TO CENSUS 1921.		NUMBER OF DEATHS REGISTERED.		Ratio of Deaths per 1,000 of Population.			
	Christians.	Hindus.	Muslims.	Hindus.	Muslims.	Buddhists.	Other classes.	Total.
Newly added area	35	624	2,748	20	3,543	... 42	142	22.44
North Kemmendine	1,473	6,550	2,529	15,321	33,3	501	25.81	43.67
South Kemmendine	4,354	10,492	3,998	12,451	6,3	444	19.26	32.71
Lanmadaw	359	5,566	1,366	10,946	19,251	334	14.55	35.65
Taroktan	294	3,479	1,387	6,976	9,813	415	19.50	30.53
North West Town	678	7,672	10,638	1,165	1,349	17	489	3.40
South-West Town	78	4,907	4,693	1,659	21,949	1	275	16.10
North East Town	3,797	9,311	5,403	3,200	1,322	1	13.27	14.86
South East Town	2,429	7,567	4,281	1,216	3,77	1	13.27	12.60
Botataung	1,111	9,059	3,908	4,840	4,01	2	110	12.82
Yegyaw	2,375	9,175	3,419	7,285	645	2	273	6.52
Theinbyu	3,833	14,032	6,105	12,712	518	27	202	9.88
Cantonment	1,901	2,759	648	1,084	79	..	564	25.00
Dala	234	6,919	2,470	5,806	228	1	152	12.21
Kanaungto	155	7,304	2,043	5,818	437	1	206	1.52
Tamwe	1,116	11,358	4,103	14,013	344	1	1,122	12.87
Port	869	7,116	4,265	1,374	177	..	..	26.47
Hospitals and other	..	..	..	..	..	..	..	1.55
Public Institutions	..	..	..	..	..	..	..	29.19
Adventitious Population	259	1,736	698	4,961	246	108	921	230.2,019*
Total,	25,350	1,25,626	62,070	1,14,298	18,161	515	3,188	1,286
								4,174
								238
								9,409
								20.32
								25.37
								20.72
								36.52
								13.10
								27.23

\* 6 males and 2 females deaths, race shown unknown.

**TABLE No. 6.—Statement showing the birth-rate and Infantile Mortality in each Circle for the year 1931.**

Circles.	Estimated normal population of 1931.	Deaths under 12 months of age.	Total recorded births.	Estimated birth-rate calculated on estimated normal Population.	Infantile mortality per 1,000 births.	Remarks.
Newly Added Area ...	5,154	41	200	38·80	205·00	
North Kemmendine ...	25,822	214	894	34·62	239·37	
South Kemmendine ...	25,718	228	1,173	45·61	194·37	
Lanmadaw - ...	14,960	117	441	29·48	265·30	
Taroktan ...	20,350	85	498	20·05	208·33	
North West Town ...	12,206	89	387	31·70	229·97	
South West Town ...	6,680	41	188	28·14	218·08	
North East Town ...	17,184	88	485	28·23	181·44	
South East Town ...	9,432	52	246	26·08	211·38	
Botataung ...	13,988	121	463	33·10	261·34	
Yegyaw ...	20,600	184	600	29·13	306·67	
Theinbyu ...	31,260	327	1,129	36·12	289·64	
Cantonment ...	3,546	33	48	13·54	687·50	
Dalla ...	8,888	78	398	44·78	195·98	
Kanaungto ...	10,412	105	446	42·84	235·43	
Tamwe ...	23,270	359	1,055	45·34	340·28	
Port ...	1,030	...	...	...	...	
Hospitals and other Public Institutions ...	...	219	...	...	...	
Adventitious population	5,336	...	...	...	...	
Total ...	2,55,836	2,381	8,561	33·46	278·12	

**TABLE No. 7.**—Statement showing the number of Deaths

Months.	Cholera.			Small-pox.			Measles,			Plague.			Fevers.			
	1929	1930	1931	1929	1930	1931	1929	1930	1931	1929	1930	1931	1929	1930	1931	
January	...	10	5	1	1	3	...	...	...	4	2	1	32	34	22	
February	...	9	2	...	4	3	...	...	...	5	6	...	34	35	29	
March	...	12	1	...	4	4	1	...	...	1	6	5	1	22	36	22
April	...	11	...	...	1	...	1	...	...	18	4	1	48	33	26	
May	...	6	6	1	2	1	5	...	...	2	3	2	33	26	30	
June	...	7	4	2	...	4	3	...	...	11	1	1	34	36	28	
July	...	2	...	1	1	...	1	...	...	20	4	2	43	23	22	
August	...	...	2	2	...	...	1	...	...	1	13	3	1	36	20	16
September	...	...	...	1	...	...	1	...	1	...	7	9	2	40	18	17
October	...	1	1	1	...	...	1	1	...	...	4	1	1	41	27	21
November	...	...	...	...	...	...	...	...	1	...	3	...	1	34	35	23
December	...	3	1	1	...	...	6	...	...	1	...	1	40	29	18	
Total	...	61	22	10	13	15	20	1	2	2	94	38	14	437	352	274

from various causes for 1929, 1930 and 1931.

Bowel complaints.			Respiratory Diseases.			Injuries.			Other causes.			Total.		
1929	1930	1931	1929	1930	1931	1929	1930	1931	1929	1930	1931	1929	1930	1931
61	81	52	261	220	211	27	15	37	540	534	393	936	894	717
67	47	40	283	208	197	32	31	26	468	382	400	902	714	692
66	61	37	278	234	192	13	20	21	471	475	354	872	836	629
58	50	42	277	243	234	20	23	30	471	405	356	904	758	690
65	47	48	264	192	243	24	174	23	411	378	408	807	827	760
97	101	91	262	233	335	15	68	26	461	423	465	887	870	951
136	111	91	265	245	284	21	27	15	609	426	444	1,097	836	860
90	69	51	225	230	249	23	19	24	535	457	463	922	800	808
77	44	50	226	223	248	17	16	20	556	420	499	923	731	838
66	33	54	276	199	282	22	22	30	557	466	520	968	749	910
68	32	42	274	215	240	20	26	16	473	431	450	872	740	772
64	51	46	242	234	213	14	28	19	526	443	478	890	786	782
915	727	644	3,133	2,676	2,928	248	469	287	5,078	5,240	5,230	10,980	9,541	9,409

TABLE No. 8.—Deaths Registered from Cholera by Registration Circles during each month of the year 1931.

Registration Circles.	January	February	March	April	May	June	July	August	September	October	November	December	Total.	Ratio of Deaths per 1,000 of Population.		Mean ratio per 1,000 during previous five years.	5	
													Male.	Female.	Total.			
Newly Added Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
North Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	2	1.3	...	.08	...	
South Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lannadaw	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
Taroktan	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...	...	
North West Town	...	...	...	...	...	...	...	...	...	...	...	...	2	1.2	...	.04	...	
South West Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
North East Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
South East Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Botataung	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
Yegyaw	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
Theinbyu	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cantonment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Dalla	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
Tamwe	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
Port	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
Hospitals and other Public Institutions	1	...	...	...	...	...	...	...	...	...	...	...	3	3	...	...	...	
Total	...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	10	10	0.23

TABLE NO. 9.—Deaths registered from Small-pox by Registration Circles during each month of the year 1931.

Registration Circles.		Ratio of Deaths per 1,000 of Population.			Mean ratio per 1,000 during previous five years.	
		Total.	Male.	Female.	Total.	
January.	Newly Added Area	...	...	...	...	5
February.	North Kemmendine	...	...	...	...	5
March.	South Kemmendine	...	...	...	...	5
April.	Lanmadaw	...	...	...	...	5
May.	Taroktan	...	...	...	...	5
June.	North West Town	...	...	...	...	5
July.	South West Town	...	...	...	...	5
August.	North East Town	...	...	...	...	5
September.	South East Town	...	...	...	...	5
October.	Botataung	...	...	...	...	5
November.	Yegyaw	...	...	...	...	5
December.	Theinbyu	...	...	...	...	5
	Cantonment	...	...	...	...	5
	Dalla	...	...	...	...	5
	Kanaungto	...	...	...	...	5
	Tamwe	...	...	...	...	5
	Port	...	...	...	...	5
	Hospitals and other Public Institutions.	...	...	...	...	5
Total	...	1	1	1	1	0.38

TABLE No. 10.—Deaths registered from Measles by Registration Circles during each month of the year 1931.

Registration Circles.	1	2	RATIO OF DEATHS PER 1000 OF POPULATION.			5
			Total.	Male.	Female.	
Newly Added Areas	...	...	...	...	...	0.03
North Kemmendine	...	...	...	...	...	0.05
South Kemmendine	...	...	...	...	...	...
Lanmadaw	...	...	...	...	...	...
Taroktan	...	...	...	...	...	...
North West Town	...	...	...	...	...	...
South West Town	...	...	...	...	...	...
North East Town	...	...	...	...	...	...
South East Town	...	...	...	...	...	...
Botataung	...	...	...	...	...	...
Yegyaw	...	...	...	...	...	...
Theinbyu	...	...	...	...	...	...
Cantonment	...	...	...	...	...	...
Dalla	...	...	...	...	...	...
Kanaungto	...	...	...	...	...	...
Tamwe	...	...	...	...	...	...
Port	...	...	...	...	...	...
Hospitals and other Public Institutions.	...	...	...	...	...	...
Total	...	...	...	1	1	0.006
				1	2	0.004
					1	0.009
						0.01

TABLE No. 11.—Deaths registered from Plague by Registration Circles during each month of the year 1931.

1	Registration Circles.	2		3		4		5	
		Total.		Total.	Female.	Male.	Total.	Female.	Male.
	Newly Added Area	...		...	...	...	...	...	...
	North Kemmendine	...		...	...	...	...	...	...
	South Kemmendine	...		...	...	...	...	...	...
	Lanmadaw	...		...	...	...	...	...	...
	Taroktan	...		...	...	...	...	...	...
	North West Town	...		...	...	...	...	...	...
	South West Town	...		...	...	...	...	...	...
	North East Town	...		...	...	...	...	...	...
	South East Town	...		...	...	...	...	...	...
	Botataung	...		...	...	...	...	...	...
	Yegyaw	...		...	...	...	...	...	...
	Theinbyu	...		...	...	...	...	...	...
	Cantonment	...		...	...	...	...	...	...
	Dalla	...		...	...	...	...	...	...
	Kanaungto	...		...	...	...	...	...	...
	Tamwe	...		...	...	...	...	...	...
	Port	...		...	...	...	...	...	...
	Hospitals and other Public Institutions.	...		...	...	...	...	...	...
Total	...	1	...	1	1	1	2	1	1
								14	0.06
								...	0.04
									0.47

TABLE No. 12.—Deaths registered from Enteric-fever by Registration Circles during each month of the year 1931.

TABLE No. 13.—Deaths registered from Cerebro-Spinal Meningitis by Registration Circles during each month of the year 1931.

1	Registration Circles.	Ratio of Deaths per 1,000 of Population.					Mean ratio per 1,000 during previous five years.
		5	4	3	Total.		
2		Total.	Male.	Female.	Total.		
3		Total.	Male.	Female.	Total.		
4		Total.	Male.	Female.	Total.		
5		Total.	Male.	Female.	Total.		
January.	February.	March.	April.	May.	June.	July.	0.02
Registration Circles.	Newly Added Area	...	...	...	...	...	...
	North Kemmendine	...	...	...	...	...	...
	South Kemmendine	...	...	...	...	...	...
	Lanmadaw	...	...	...	...	...	...
	Taroktan	...	...	...	...	...	...
	North West Town	...	...	...	...	...	...
	South West Town	...	...	...	...	...	...
	North East Town	...	...	...	...	...	...
	South East Town	...	...	...	...	...	...
	Botataung	...	...	...	...	...	...
	Yegyaw	...	...	...	...	...	...
	Theinbyu	...	...	...	...	...	...
	Cantonment	...	...	...	...	...	...
	Dalla	...	...	...	...	...	...
	Kanaungto	...	...	...	...	...	...
	Tamwe	...	...	...	...	...	...
	Port	...	...	...	...	...	...
	Hospitals and other Public Institutions.	...	1	1	1	1	1
Total	...	...	1	...	...	2	0.008

TABLE NO. 14.—Deaths registered from Diphtheria by Registration Circles during each month of the year 1931.

Registration Circles.	1	2	3		4		5	
			TOTAL.		RATIO OF DEATHS PER 1,000 OF POPULATION.		Mean ratio per 1,000 during previous five years.	
Newly Added Area	...	...	Male.	Female.	Total.	Female.	Total.	...
North Kemmendine	...	...	...	...	...	...	...	0.03
South Kemmendine	...	...	...	...	...	...	...	...
Lannmadaw	...	...	...	...	...	...	...	0.5
Taroktan	...	...	...	...	...	...	...	1
North West Town	...	...	...	...	...	...	...	...
South West Town	...	...	...	...	...	...	...	...
North East Town	...	...	...	...	...	...	...	...
South East Town	...	...	...	...	...	...	...	...
Botataung	...	...	...	...	...	...	...	...
Yegyaw	...	...	...	...	...	...	...	...
Theinbyu	...	...	...	...	...	...	...	...
Cantonment	...	...	...	...	...	...	...	...
Dalla	...	...	...	...	...	...	...	...
Kanaungto	...	...	...	...	...	...	...	...
Tamwe	...	...	...	...	...	...	...	...
Port	...	...	...	...	...	...	...	...
Hospitals and other Public Institutions.	...	...	...	...	...	...	...	...
Total	...	1	...	...	...	...	...	0.02
								0.02
								800.0
								1
								2
								2
								4
								1
								1
								1
								1



TABLE No. 16.—Deaths registered from Malaria during each month of the year 1931.

Registration Circles.	1	2	3	4		5
				Total.	Ratio of Deaths per 1,000 of Population.	
Newly Added Area	...	...	...	...	...	...
North Kemmendine	2	...	1	1	2	27
South Kemmendine	1	1	1	1	1	31
Lanmadaw	...	...	...	1	1	10
Taroktan	...	...	...	1	1	18
North West Town	...	...	1	1	1	14
South West Town	...	...	1	1	1	17
North East Town	...	...	1	1	1	17
South East Town	1	3	1	1	1	09
Botataung	1	1	1	1	1	31
Yegyaw	1	2	1	1	1	21
Theinbyu	1	2	1	1	1	29
Cantonment	3	...	3	2	2	31
Dala	3	...	2	2	2	21
Kanaungto	1	1	2	2	2	76
Tamwe	...	...	...	...	...	19
Port	...	...	...	...	...	...
Hospitals and other Public Institutions.	2	4	3	3	4	...
Total ...	13	12	10	15	10	0·57
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
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						0·37
						0·18
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						110
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						0·46
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						19
						12
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						0·37
						0·18
						129
						110
						19
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						0·46
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						110
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						8
						0·37
						0·18
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						110
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						0·46
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						0·37
						0·18
						129
						110
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						0·37
						0·18
						129
						110
						19
						12
						8
						0·46
						129
						110
						19
						12
						8
						0·37
						0·18
						129
						110
						19
						12
			</			

**TABLE No. 17.**—Deaths registered from other Fevers including Influenza by Registration Circles during each month of the year 1931.

Registration Circles.	1	2	3	Ratio of Deaths per 1,000 of Population.		5
				Total.	Female.	
Newly Added Area	...	...	...	...	...	...
North Kemmendine	...	...	1	1	1	1
South Kemmendine	...	...	...	2	2	2
Lammadaw	...	...	...	...	...	...
Taroktan	...	...	...	...	...	...
North West Town	...	1	...	1	1	1
South West Town	...	...	...	...	...	...
North East Town	...	...	...	...	...	...
South East Town	...	...	1	1	1	1
Botataung	...	1	1	2	2	2
Yegyaw	...	1	4	1	1	1
Theinbyu	...	...	3	1	1	1
Cantonment	...	...	...	...	...	...
Dalla	...	1	...	1	1	1
Kanaungto	...	...	1	...	1	1
Tamwe	...	...	1	...	1	1
Port	...	...	...	1	1	1
Hospitals and other Public Institutions.	...	...	1	2	4	8
Total	5	10	7	8	11	14
						0·42
						0·28
						0·31
						0·26
						0·28
						0·42

TABLE No. 17A.—Deaths registered from Influenza by Registration Circles during each month of the year 1931.

Registration Circles.	1	2	3	RATIO OF DEATHS PER 1,000 OF POPULATION.		5
				TOTAL.	FEMALE.	
Newly Added Area	...	...	...	...	...	...
North Kemmendine	...	...	...	...	...	0·04
South Kemmendine	...	...	...	...	...	0·09
Linnadaw	...	...	...	...	...	...
Taroktan	...	...	...	...	...	...
North West Town	...	...	...	...	...	...
South West Town	...	...	...	...	...	...
North East Town	...	...	...	...	...	...
South East Town	...	...	1	...	1	0·08
Botataung	...	...	...	...	...	...
Yegyaw	...	...	...	1	1	...
Theinbyu	...	...	...	...	...	...
Cantonment	...	...	...	...	...	...
Dall	...	...	...	...	...	...
Kanaungto	...	...	...	...	...	...
Tamwe	...	...	...	...	...	...
Port	...	...	...	...	...	...
Hospitals and other	...	...	...	...	...	...
Public Institutions	...	...	...	2	2	...
Total	...	2	...	5	1	...
				7	2	9
				0·03	0·02	0·03
						0·09

TABLE No. 18.—Deaths registered from Diarrhoea and Dysentery by Registration Circles during each month of the year 1931.

Registration Circles.	RATIO OF DEATHS PER 1,000 OF POPULATION.												Mean ratio per 1,000 during previous five years.							
	Total.				Male.				Female.				Total.	Male.	Female.					
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.								
Newly Added Area	...	...	4	1	2	3	3	1	4	8	1·97	2·64	2·56	5	5					
North Kemmendine	...	...	2	3	5	7	3	4	18	15	1·15	1·43	1·26	4	4					
South Kemmendine	...	...	1	4	1	2	2	1	15	18	·72	1·64	1·03	3	3					
Lanmadaw	...	...	...	...	...	...	...	...	...	3	·24	·57	·36	2	2					
Taroktan	...	...	3	1	2	2	1	1	14	9	13	·57	·59	1	1					
North West Town	...	...	3	1	2	2	1	1	...	5	23	·85	1·74	0·7	0					
South West Town	...	...	3	1	2	2	1	1	...	1	1	·45	·34	·43	0					
North East Town	...	...	4	1	3	2	1	1	2	1	7	14	·43	1·02	0					
South East Town	...	...	4	1	2	2	1	1	1	1	7	7	·43	1·02	0					
Botataung	...	...	7	5	9	4	4	1	1	1	1	1	·43	1·02	0					
Yegyaw	...	...	7	4	6	3	2	1	8	4	6	23	30	·61	0					
Theinbyu	...	...	1	1	1	1	1	1	1	1	1	12	12	·76	0					
Cantonment	...	...	3	1	2	2	1	1	...	2	1	1	1	·76	0					
Dalla	...	...	2	10	5	5	5	10	11	10	12	11	11	·44	0					
Kanaungto	...	...	13	7	4	6	8	18	15	10	9	8	51	·52	0					
Tamwe	...	...	2	10	7	4	6	11	12	10	9	13	22	·46	0					
Port	...	...	13	7	4	6	8	18	15	10	9	8	51	·46	0					
Hospitals and other Public Institutions.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0					
Total	...	52	40	37	42	48	91	91	51	50	54	42	46	358	286	644	1·50	2·68	1·87	3·04

88

TABLE No. 19.—Deaths registered from Tubercle of Lungs by Registration Circles during each month of the year 1931.

TABLE No. 20.—Deaths registered from Respiratory Diseases excluding Tubercle of Lungs by Registration Circles during each month of the year 1931.

Registration Circles.	RATIO OF DEATHS PER 1,000 OF POPULATION.												Mean ratio during previous five years.	
	Total.			Male.			Female.			Total.				
	1	2	3	4	5									
Newly Added Area	2	3	2	4	5	2	2	15	15	30	7·40	9·89	8·47	
North Kemmendine	11	13	13	18	16	14	14	19	16	97	177	7·61	6·75	
South Kemmendine	19	15	14	24	15	10	15	13	13	89	163	4·26	5·11	
Lannadaw	6	5	7	14	16	10	18	19	8	7	45	125	6·51	6·47
Taroktan	13	13	18	14	23	15	13	13	16	18	121	52	8·64	6·54
North West Town	9	3	4	5	3	1	6	11	11	10	6	59	34	7·88
South West Town	2	4	3	5	5	2	2	3	5	6	1	26	13	3·32
North East Town	5	5	5	5	3	1	6	6	5	5	7	25	77	4·32
South East Town	5	5	5	3	9	6	5	5	5	6	5	5	36	3·32
Botataung	8	13	9	12	11	12	11	13	12	11	8	5	21	3·21
Yegyaw	8	5	5	10	11	13	7	8	12	11	7	6	56	3·21
Theinbyu	20	16	17	20	24	34	33	30	24	20	25	22	153	3·21
Cantonment	2	3	3	1	1	2	1	2	1	1	7	4	49	3·21
Dalla	9	6	3	6	6	6	8	8	3	12	1	3	10	3·21
Kanaungto	6	5	6	5	10	12	13	9	5	9	11	3	62	3·21
Tamwe	32	11	16	18	21	40	22	24	31	34	19	20	169	2·88
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospitals and other Public Institutions	18	19	15	22	23	42	23	26	23	19	17	15	214	4·82
Total	158	144	135	174	183	273	200	187	193	217	181	153	1,392	6·95
													806	5·83
													2,198	6·36
														7·55

TABLE No. 21.—Deaths registered from Injuries by Registration Circles during each month of the year 1931.

90

Registration Circles.		Ratio of Deaths per 1,000 of Population.																						
1	2	3	4	5	Total.	Male.	Female.																	
Newly Added Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
North Kemmendine	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
South Kemmendine	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Lannadaw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taroktan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North West Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South West Town	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
North East Town	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
South East Town	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Botataung	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Yegyaw	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Theinbyu	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Cantonment	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Dalla	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Kanaungto	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Tamwe	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Port	...	...	1	...	...	1	...	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...
Hospitals and other	...	35	22	19	28	21	26	15	24	18	28	14	17	230	37	267	...	...	...	...	...	...	...	...
Public Institutions	...	37	26	21	30	23	26	15	24	20	30	16	19	245	42	287	1·03	0·39	0·83	0·89	0·83	0·89	0·83	0·89

TABLE No. 22.—Deaths registered from All Other Causes by Registration Circles during each month of the year 1931.

Registration Circles.	Ratio of Deaths per 1,000 of Population.												Mean ratio per 1,000 during previous five years.								
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.								
Newly Added Area	11	7	12	6	9	8	9	11	11	4	52	49	101	25·65	32·32	28·51					
North Kemmendine	43	35	40	48	46	44	48	51	48	43	262	258	520	16·70	24·53	19·84					
South Kemmendine	32	27	26	34	43	37	37	34	41	44	216	217	433	10·33	19·72	13·57					
Lannmadaw	17	18	20	24	20	23	25	30	26	21	141	132	273	11·47	18·97	14·18					
Taroktan	20	20	16	25	10	22	31	25	33	23	17	186	79	265	13·29	9·94	12·07				
North West Town	8	6	10	12	11	14	12	8	10	11	10	17	73	56	129	4·46	10·83	5·99			
South West Town	3	6	3	5	1	7	5	14	15	16	15	13	12	76	80	53	3·49	7·66	4·51		
North East Town	14	15	8	11	15	8	10	7	8	7	6	4	3	31	22	53	4·69	11·68	6·77		
South East Town	8	4	10	5	1	7	8	10	5	4	11	10	12	76	80	56	4·50	10·79	5·86		
Botataung	20	23	19	11	23	32	16	23	27	26	25	33	163	115	278	11·94	20·28	14·39			
Yegyaw	21	20	21	22	28	30	34	24	29	27	26	21	170	137	307	11·30	16·41	13·12			
Theinbyu	49	47	36	8	30	33	50	50	53	49	52	63	49	6	269	300	569	11·55	21·56	15·30	
Cantonment	8	4	8	7	4	8	4	8	4	9	9	10	10	8	6	51	35	86	11·23	18·13	13·29
Dalla	7	12	9	8	8	11	14	8	6	6	11	13	7	63	51	114	5·37	12·99	7·28		
Kanaungto	5	13	6	10	21	23	10	16	16	21	21	24	21	102	89	191	9·14	19·35	12·13		
Tamwe	49	48	49	45	55	57	56	64	71	72	45	73	72	353	331	684	17·18	31·85	22·11		
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Hospitals and other Public Institutions	78	93	73	64	79	77	68	98	83	88	91	672	306	978							
Total	... 393	400	354	356	408	465	444	463	499	520	450	478	2,936	2,294	5,230	12·30	21·48	15·14	16·37		

TABLE No. 23.—Deaths from Diarrhoea and Dysentery registered according to class by Registration Circles during 1931.

Registration Circles.	Population according to Census of 1921.		Number of deaths registered.		Ratio of deaths per 1,000 of population.	
	Christians.	Hindus.	Muslims.	Buddhists.	Other classes.	Total.
Newly Added Area	35	624	2,748	3,543	8	2.56
North Kemmendine	1,473	6,550	15,321	26,206	33	1.43
South Kemmendine	4,354	10,492	3,998	31,913	72	1.26
Lannadaw	359	5,566	1,366	19,251	57	1.03
Taroktan	294	3,479	1,387	21,949	63	.36
North West Town	678	7,672	10,638	21,541	75	.59
South West Town	78	4,907	4,693	11,754	74	1.07
North East Town	3,797	9,311	5,403	23,040	45	.43
South East Town	2,429	7,567	4,281	15,870	54	.43
Botataung	1,111	9,059	3,908	4,840	45	.61
Yegyaw	2,375	9,175	3,419	7,785	45	.61
Theinbyu	3,833	14,032	6,105	12,712	53	.61
Cantonment	1,901	2,759	648	1,084	53	.61
Dalla	234	6,919	2,470	5,806	52	.61
Kanaungto	155	7,304	2,043	5,818	52	.61
Tamwe	1,116	11,358	4,103	14,013	52	.61
Port Hospitals and other	869	7,116	4,265	1,374	52	.61
Public Institutions ...	259	1,736	698	4,961	52	.61
Adventitious population						
Total	25,350	1,25,626	62,070	1,14,298	18,161	3,45,505
	25	21	169	121	77	38
	6	18	96	74	46	150
	644	644	644	644	644	644
	1.87	1.87	1.87	1.87	1.87	1.87

**TABLE No. 24.**—Statement of the number of deaths from Phthisis and Respiratory Diseases and the ratio of deaths per 1,000 of the population in males and females, circle by circle during 1931.

Registration Circles.	Phthisis.						Respiratory diseases excluding Phthisis.					
	Number and Ratio of deaths per 1,000 of population.						Number and Ratio of deaths per 1,000 of population.					
	Males.		Females.		Total.		Males.		Females.		Total.	
	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- ber.	Ratio
Newly Added Area	...	...	3	1.98	3	.85	15	7.40	15	9.89	30	8.47
North Kemmendine	22	1.40	13	1.24	35	1.34	97	6.18	80	7.61	177	6.75
South Kemmendine	38	1.83	40	3.63	78	2.44	89	4.26	74	6.72	163	5.11
Lanmadaw	27	2.20	7	1.01	34	1.77	80	6.51	45	6.47	125	6.49
Taroktan	23	1.64	6	.75	29	1.32	121	8.64	52	6.54	173	7.88
North West Town	5	.30	12	2.32	17	.79	59	3.60	34	6.57	93	4.32
South West Town	4	.45	5	1.74	9	.76	26	2.93	13	4.53	39	3.32
North East Town	13	.80	6	.88	19	.82	52	3.21	25	3.65	77	3.34
South East Town	8	.64	5	1.46	13	.82	51	4.10	21	6.12	72	4.54
Botataung	41	3.00	20	3.53	61	3.16	89	6.52	36	6.35	125	6.47
Yegyaw	18	1.20	13	1.56	31	1.32	56	3.72	43	5.15	99	4.23
Theinbyu	19	.82	21	1.51	40	1.07	153	6.57	132	9.49	285	7.66
Cantonment	2	.44	1	.52	3	.46	10	2.20	9	4.66	19	2.94
Dalla	11	.93	11	2.80	22	1.40	49	4.18	28	7.13	77	4.92
Kanaungto	7	.63	5	1.09	12	.76	62	5.56	32	6.96	94	5.97
Tamwe	22	1.07	11	1.06	33	1.07	169	8.23	119	11.45	288	9.31

**TABLE No. 25.**—*Statement showing the Immigration and Emigration for the Port of Rangoon during the year 1931.*

Year.	IMMIGRATION.			EMIGRATION.			REMARKS.
	Adults.	Children.	Total.	Adults.	Children.	Total.	
1931	2,58,487	12,881	2,71,368	24,715	4,581	29,296	
			To Indian Ports	2,74,126	14,570	2,88,696	
	2,58,487	12,881	2,71,368	298,841	19,151	3,17,992	

*N.B.*—With reference to the figures of Emigrants to Indian Ports, they have been compiled from the information furnished by the Agents of different Shipping Companies concerned.

TABLE No. 26.—Burial statement for the year 1931.

Serial No.	Burial or Burning Ground.	No. of Burials ordered by Medical Registrars, etc.	No. of passes collected by Vaccinators and Caretakers.		Remarks.
			Old.	New.	
1	Ayeywa near Jamal's Land, Kemmendine	15	1	14	
2	Seikkyi, Kemmendine	18	1	17	
3	Municipal West, Hanthawaddy Road	3,201	348	2,857	
4	Karen, Bagaya Phongyi Road	33	2	31	
5	Hteedan, Kemmendine	281	33	255	
6	Armenian, Stockade Road	4	...	6	
7	Baptist, Montgomery Street	22	4	18	
8	Parsee, U Ohn Ghine Road	1	...	1	
9	Jewish, U Ohn Ghine Road	11	...	11	
10	Mogul, U Ohn Ghine Road	34	1	33	
11	Chinese, Culvert Road	256	6	255	
12	Chinese, Tamwe Road	78	11	68	
13	Municipal East, Tamwe	4,037	389	3,660	
14	Suratee, Tamwe	1,072	39	1,045	
15	Patheingyi Village, Dawbong	79	1	78	
16	Arracan Co., Land, Dawbong	65	...	65	
17	Steel Bros. & Co., Land, Dawbong	,	...	...	
18	Ayeywa Village, Dawbong	2	...	2	
19	Dalla Burial Ground	100	2	98	
20	Hindu Burial Ground, Dalla	81	1	80	
21	Kamakasit (East)	18	2	16	
22	Kamakasit (West)	34	3	31	
23	Angyi, Dalla	30	1	29	
24	Minywa, Seikkyi Dalla	18	2	16	
25	Seikkyi, Kanaungto	200	16	186	
26	Sunni Mohden, Seikkyi	8	...	9	
27	Burmese, North Kanaungto	72	2	70	
	Carried over	...	...	...	

TABLE No. 26.—Burial statement for the year 1931—concl'd.

Serial No.	Burial or Burning Ground.	No. of Burials ordered by Medical Registrars, etc.	No. of passes collected by Vaccinators and Caretakers.		Remarks.
			Old.	New.	
	Brought forward ...	...	...	...	
28	Mohamedan, North Kanaungto	11	...	11	
29	Cantonment	51	4	50	
30	Kamayut	89	1	88	
31	Old Suratee, Stockade Road	2	1	1	
32	Old Chittagonian, Stockade Road	1	...	1	
33	Old Fukkienese, Mill Road	4	2	2	
34	Old Roman Catholic, Stockade Road	2	...	2	
35	Eastern Slopes of Shwedagon Pagoda	6	4	2	
36	Myanaung Kyaung, Wingaba	1	...	1	
37	Kyaung in 34, Yadashe Road	1	...	1	
38	Aletawya Kyaung Boundary Road	1	...	1	
39	Kamayut Ywathit Kyaungdike	1		1	
40	Shwegyctyet Kyaung Compound	1	...	1	
41	Ngadatgyi Kyaung Compound	2	...	2	
42	Wingaba Kyaung, Campbell Road	1	1	...	
43	Myenigon Kyaung, Kemmendine	1	...	1	
44	Shwegondine Kyaung, Churchill Road	1	...	1	
45	Ngadatgyi Ashetawya Kyaung	1	1	...	
46	U Byatawya Kyaung, Boundary Road.	1	...	1	
47	In Mortuary, Medical College, etc.	137	113	..	
	Total ...	10,085	992	9,118	

No. of passes not received at the end of last year .....	33
Total No. of deaths during the year	9,409
Total No. of still births during the year .....	676
No. of dead bodies brought from outside Corporation limits .....	80
Total ...	10,198

Total No. of passes collected (Old and New) .....	10,110
No. of dead bodies removed to outside Corporation limits .....	52
No. of passes not collected at the end of the year .....	26
No. kept in museum for which no pass collected .....	10
Total ...	10,198

## VACCINATION.

**TABLE No. 1.**—Showing the total number of vaccinations performed during the year 1931-32 including those performed at the Port and the cost per head of the vaccinations performed.

Year.	Primary vaccinations in town by Corporation Staff.	Re-vaccinations in town by Corporation Staff.	Medical Practitioners.	Ship Vaccinations.	Total number of vaccinations.	Rate percentage of successful cases in Town.	Average number vaccinated by each vaccinator.	Primary vaccination per 1,000 of population (by Corporation Staff).	Number of births registered per 1,000 of population.	Total expenditure including cost of Lymph and salaries of vaccinators.	Average cost per vaccination head.	Rs. A. P.
1931-32	... 13,118	108,263	6,347	156,537	284,265	99.82	2,334	32.45	21.41	40,837	0 0	0 2 4
1930-31	... 8,176	16,104	332	182,247	206,859	97.17	759	23.66	23.11	37,154	6 9	0 2 10
1929-30	... 9,406	21,002	555	216,854	247,817	98.29	1,086	27.23	24.12	41,223	15 9	0 2 8

TABLE No. 1A.—Showing particulars of cost of Vaccinations performed at the Port Health Station.

Year.	Pay and House allowance for 4 temporary Vaccinators.	Cost of lymph supplied (approximately).	Total Cost.	Number of Vaccinations performed.			Cost of each Vaccination.			
				Rs.	A.	P.				
1931-32	...	3,129	6 0	5,317	14	6	8,447	4 6	156,537	92
1930-31	...	2,937	6 0	4,327	13	0	7,265	3 0	182,247	8
1929-30	...	2,745	6 0	7,894	6 0	Rs. 10,639 12 0	216,854	0 9	0 0 9	

**Table No. 2.**—*Showing births registered during the year 1931-32, and vaccination of Infants under one year of age.*

Circles.	Total births excluding still births.	Still births	Deaths under one year.	Number of Infants surviving.	Number of Infants vaccinated.	Percentage of vaccination to births registered.	Remarks.
Kamayut ... }	1,091	71	273	818	1,160	108·2	
North Kemmendine ... }	1,162	59	237	925	1,105	95·06	
South Kemmendine ... }	852	42	211	641	854	100·2	
Lanmadaw ... }	556	36	139	417	724	130·2	
Taroktan ... }	723	28	144	579	480	66·37	
West Town ... }	1,101	50	324	777	1,054	95·74	
Botataung ... }	1,171	39	350	821	1,003	85·63	
Pazundaung ... }	1,084	73	381	703	1,091	100·7	
Theinbyu East ... }	805	31	200	605	1,001	124·4	
Theinbyu West ... }	29	..	26	3	19	65·52	
Hospitals and other Public Institutions ...	248	248	239	...	...	...	
Vaccination performed by Private Medical Practitioners ...	...	...	...	...	114	...	
<b>Total ...</b>	<b>8,574</b>	<b>675</b>	<b>2,524</b>	<b>6,289</b>	<b>8,625</b>	<b>100·6</b>	

Table No. 1—Showing number of Blockages

Division.	Circle.	BLOCKAGES IN							INSPECTOR.													
		Water Closets.				SULLIAGE TRAYS.			Manhole.			Water Closets.				SULLIAGE TRAYS.						
		1	2	3	4	Deep.	Surface.		5	Downtake Sulliage and Rain-water Pipes.	6	Soil Pipes.	7	1	2	3	4	5	6	7		
East Town Division.	North East Town (I)	27	43	3,385	41	19	2	...	5	Downtake Sulliage and Rain-water Pipes.	6	Other Blockages,		1	2	3	4	5	6	7		
	North East Town (II)	18	78	3,378	48	38	...	5	...	Soil Pipes.	7	Water Closets.		1	2	3	4	5	6	7		
	South East Town	13	357	1,822	19	15	2	...	1	Downtake Sulliage and Rain-water Pipes.	2	SULLIAGE TRAYS.		1	2	3	4	5	6	7		
	Yegyaw	16	81	1,792	14	4	...	...	...	Soil Pipes.	3	Manhole.		1	2	3	4	5	6	7		
	Botataung	11	7	3,202	5	13	...	...	...	Other Blockages,	4	Downtake Sulliage and Rain-water Pipes.		2	3	4	5	6	7			
	Total	...	85	566	13,579	127	89	4	5	Water Closets.	1	Water Closets.		1	2	3	4	5	6	7		
East Suburban Division.	Theinbyu East	6	86	1,668	4	...	...	1	...	SULLIAGE TRAYS.	2	Manhole.		1	2	3	4	5	6	7		
	Theinbyu West	5	3	507	2	...	...	...	...	Soil Pipes.	3	Downtake Sulliage and Rain-water Pipes.		1	2	3	4	5	6	7		
	Tamwe (I)	...	...	...	...	...	...	...	...	Other Blockages,	4	Other Blockages.		1	2	3	4	5	6	7		
	Tamwe (II)	...	1	225	...	...	...	...	...	Water Closets.	5	Water Closets.		2	3	4	5	6	7			
	Tamwe (III)	1	2	...	...	...	...	...	...	SULLIAGE TRAYS.	6	SULLIAGE TRAYS.		3	4	5	6	7				
	Dalla	...	...	...	...	...	...	...	...	Manhole.	7	Manhole.		4	5	6	7					
Total	...	12	92	2,400	6	...	...	2	...	Downtake Sulliage and Rain-water Pipes.	...	Downtake Sulliage and Rain-water Pipes.		5	6	7						

**TARY.**

*cleared during the year 1931.*

**CLEARED BY****OWNER.****CORPORATION PLUMBER.****REMARKS.**

Water Closets.	SULLIAGE TRAYS.		Manhole.		Downtake Sulliage and Rain-water Pipes.		Soil Pipes.	Other Blockages.	Water Closets.	SULLIAGE TRAYS.		Manhole.		Downtake Sulliage and Rain-water Pipes.		Soil Pipes.	Other Blockages.	
	Deep.	Surface.	Deep.	Surface.	Deep.	Surface.				Deep.	Surface.	Deep.	Surface.	Deep.	Surface.	Deep.	Surface.	
1	2	3	4	5	6	7	1	2	1	2	3	4	5	6	7	8	9	
27	43	...	39	19	2	...	...	...	...	2	...	2	...	2	...	2	...	
18	76	...	46	38	...	...	1	5	1	5	...	1	2	...	1	2	...	
13	351	...	18	13	...	...	...	...	...	...	...	...	1	...	1	2	...	
16	79	...	13	1	...	...	...	5	...	...	...	...	1	...	1	3	...	
10	7	...	5	13	...	...	...	...	1	...	...	...	...	...	...	1	...	
84	556	...	121	84	3	5	1	9	...	...	...	6	5	1	...	...	...	
4	84	...	2	...	1	2	2	2	...	...	...	2	...	...	...	...	...	
5	3	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
1	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
10	90	...	4	...	...	2	2	2	...	2	...	2	...	...	...	...	...	

**Table No. 1—Showing number of Blockages**

Division.	Circles.	BLOCKAGES IN							INSPECTOR.									
		Water Closets.				SULLIAGE TRAYS.			Manhole.			Water Closets.				SULLIAGE TRAYS.		
		1	2	3	4	Deep.	Surface.	5	6	7	Downtake Sulliage and Rain-water Pipes.	Soil Pipes.	1	2	3	4	5	6
West Town Division.	North West Town ...	27	489	3,505	30	32	...	...	...	...	359	3,505	...	...	...	...	...	...
	South West Town ...	15	136	2,886	23	41	2	2	2	...	...	2,886	...	...	...	...	...	...
	Taroktan	4	271	2,100	18	18	...	...	...	...	...	2,100	...	...	...	...	...	...
	Lanmadaw	29	133	2,727	30	12	2	...	...	...	...	2,727	2	...	...	...	...	...
	Total	75	1,029	11,218	101	103	4	2	...	359	11,218	2	...	...	...	...	...	...
	North Kemmendine (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	North Kemmendine (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Kemmendine (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Kemmendine (II)	9	29	1,801	19	10	2	...	...	1	1,782	...	...	...	1	...	...	...
	Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Suburban Division.	Cantonment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	9	29	1,801	19	10	2	...	...	1	1,782	...	...	1	...	...	...	...
	GRAND TOTAL	...	181	17,162	8,998	253	202	10	9	...	361	28,979	2	1	...	...	...	...

TARY.

cleared during the year 1931.

**Table No. 2**—Showing number of Notices issued and served under the

		Section.						Sch. II, Chap. I.				Sch. II, Ch. VII.	Sch. II, Ch. VIII.				
Divisions.	Circles.	123	124	156 (i)	156 (2)	156 (4)	182	Rule 1.	Rule 2.	Rule 25.	Rule 27 (e).	Rule 4.	Sch. II Ch. VIII. Rule 1 (e).	Rule 21(a).	Rule 2 (b).	Rule 1 (b).	
EAST TOWN DIVISION.	North East Town (I)...	...	...	...	...	...	256	36	2	310	...	...	...	11	59	284	
	North East Town (II)	1	...	...	...	...	213	6	15	552	...	...	...	...	23	363	
	South East Town	...	...	...	...	...	109	26	4	576	...	...	...	3	46	397	
	Yegyaw	...	...	...	...	...	143	34	32	291	...	...	...	8	82	243	
	Botataung	...	...	...	...	...	231	5	15	214	...	...	...	4	81	148	
	R.B. (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	R.B. (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	F.I. (I)	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	
	F.I. (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total		...	1	...	...	...	952	107	68	1,946	...	...	...	26	291	1435	
EAST SUBURBAN DIVISION.	Theinbyu East	...	1	...	...	...	156	10	4	205	...	...	...	1	307	22	
	Theinbyu West	...	2	...	...	...	99	6	24	314	...	...	...	1	311	23	
	Tamwe (I)	...	...	4	...	...	123	9	1	89	...	...	...	...	353	...	
	Tamwe (II)	...	...	...	4	...	8	...	...	162	...	...	...	...	463	15	
	Tamwe (III)	...	...	...	...	...	55	...	...	34	...	1	...	43	365	...	
	Dalla	...	...	...	72	...	...	...	...	...	...	...	...	...	...	...	
	R.B.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	F.I. (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	F.I. (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total		...	3	4	...	76	...	441	25	29	804	...	1	...	45	1,799	260

different sections of the City of Rangoon Municipal Act, 1922, during the year 1931.

SERVED UNDER

**Table No. 2**—Showing number of Notices issued and served under the

Divisions.	Circles.	NOTICES														
		Section.						Sch. II, Chap. I				Sch. II, Ch. VII,	Sch. II, Ch. VIII.			
		123	124	156 (	156 (2)	156 (4)	182	Rule 1.	Rule 2.	Rule 25.	Rule 27 (e).					
WEST TOWN DIVISION.	North-West Town	...	...	...	...	...	335	73	13	391	...	...	1	77	496	
	South-West Town	...	...	...	...	4	...	392	187	7	603	...	32	39	278	
	Taroktan	...	...	...	...	...	176	20	2	513	...	...	2	20	478	
	Lanmadaw	...	...	...	...	...	384	161	...	382	...	...	7	41	422	
	R.B. (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	R.B. (II)	...	...	...	...	...	97	...	...	97	...	...	...	...	...	
	F.I. (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	F.I. (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
WEST SUBURBAN DIVISION.	TOTAL	...	...	...	...	4	...	1,384	441	22	1, 98	...	...	42	177	1,674
	North Kemmendine (I)	...	...	...	17	...	3	35	...	113	...	...	...	190	...	
	North Kemmendine (II)	...	...	...	...	...	2	2	...	145	...	...	33	202	...	
	South Kemmendine (I)	1	...	...	...	...	...	5	22	245	...	...	1	289	4	
	South Kemmendine (II)	...	...	4	2	...	186	34	13	137	2	...	1	71	116	
	Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	18	8	
	R. B.	..	...	...	...	...	...	...	...	...	...	...	...	...	...	
	F. I. (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
GRAND TOTAL	F. I. (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Cantonment	...	...	...	...	...	17	...	...	16	...	...	1	39	...	
	TOTAL	...	1	...	4	19	...	208	76	35	656	2	...	37	809	128
GRAND TOTAL		...	5	4	4	99	...	2,985	649	154	5,392	2	1	150	3,076	3,497

*different sections of the City of Rangoon Municipal Act, 1922, during the year 1931.*

SERVED UNDER.

**Table No. 3—Showing number of cases prosecuted and amount of  
Rangoon Municipal Act, 1922,**

Rule or Section.	Name of offence.	EAST TOWN					
		No. of prosecutions.	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.
Sch. II, Chap. I, Rule 1	Failure to provide troughs and pipes for receiving, carrying and discharging water from buildings.	...	...	...	...	...	...
Do Rule 2	Failure to pave court-yard, etc., for efficient drainage.	...	...	...	...	...	...
Do Rule 12	Failure to provide water closet or closet accommodation or urinal and bathing or washing places, etc.	...	...	...	...	...	...
Do Rule 13	Failure to provide closet accommodation for factories.	...	...	...	...	...	...
Do Rule 25 (1)	Failure to repair latrine, urinal, bathing and washing places, etc.	2	1	1	...	1	...
Do Rule 27 (D & E)	Throwing of sullage, etc. ...	...	...	...	...	...	...
Sch. II, Chap. VII, Rule 1	Failure to provide receptacles for collecting and keeping rubbish and offensive matter.	1	...	1	...	...	1
Do Rule 2	Accumulations of offensive matter on any street or premises.	2	...	2	...	2	...
Sch. II, Chap. VIII, Rule 1	Failure to fill in pools which are a nuisance.	...	...	...	...	...	...
Sch. II, Chap. VIII-A, Rule 1	Failure to limewash premises	...	10	3	7	1	3
Do Rule 2	Failure to enclose land or building	...	...	...	...	...	...
Do Rule 3	Failure to clear and remove noxious Vegetation.	...	...	...	...	...	...
Do Rule 7	Bathing, or washing animals, clothes or other article or drying clothes in places not set apart for the purpose.	...	...	...	...	...	...
Do Rule 8	Washing of clothes by washermen in places prohibited for the purpose.	6	...	6	...	2	4
Sch. II, Chap. IX, Rule 1	Concealing of epidemic diseases	...	8	1	7	...	4
Sch. II, Chap. IX-A	Carrying on dangerous and offensive trade or keeping of any article for sale which is dangerous or likely to create a nuisance, without license.	17	...	17	...	7	10
	Carried over ...	46	5	41	1	19	21

*Fines imposed under the Ghee Act and the Different Sections of the City of during the year 1931.*

DIVISION.		EAST SUBURBAN DIVISION.								
<i>Amount of</i>		No. of prosecutions.	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.	<i>Amount of</i>		
Fines imposed.	Cost awarded.							Rs.	Rs.	
Rs.	Rs.									
...	...	2	1	1	...	1	...	...	...	
...	...	1	...	1	...	1	...	...	...	
...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	
...	...	23	6	17	1	8	8	52	8	
...	...	1	...	1	...	...	1	10	1	
15	1	1	...	1	...	...	1	...	...	
...	...	3	1	2	...	1	1	5	1	
...	...	...	...	...	...	...	...	...	...	
30	3	18	6	12	...	5	7	51	7	
...	...	...	...	...	...	...	...	...	...	
...	...	4	2	2	...	1	1	2	1	
...	...	...	...	...	...	...	...	...	...	
55	4	9	...	9	...	6	3	13	3	
13	3	8	3	5	...	2	3	33	3	
118	10	23	3	20	...	11	9	55	9	
231	21	92	22	70	1	36	33	221	33	

**Table No. 3**—Showing number of cases prosecuted and amount of Rangoon Municipal Act, 1922,

*Fines imposed under the Ghee Act and the Different Sections of the City of  
during the year 1931.*

No. of prosecutions.	TOTAL.						REMARKS.
	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.	Amount of	
						Fines imposed. Rs.	Cost awarded. Rs.
15	3	12	..	7	5	85	5
2	..	2	..	2	..	..	..
1	..	1	..	..	1	5	1
..	..	..	..	..	..	..	..
80	14	66	1	22	43	295	43
..	..	..	..	..	..	..	..
2	..	2	..	..	2	25	2
27	1	26	..	10	16	150	16
..	..	..	..	..	..	..	..
61	22	39	1	14	24	210	24
..	..	..	..	..	..	..	..
11	6	5	..	3	2	7	2
..	..	..	..	..	..	..	..
36	3	33	..	13	20	194	20
21	4	17	..	7	10	76	10
82	15	67	..	29	38	423	38
338	68	270	2	107	161	1,470	161

**Table No. 3—Showing number of cases prosecuted and amount of  
Rangoon Municipal Act, 1922,**

Rule or Section.	Name of offence.	EAST TOWN					
		No. of prosecutions.	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.
	Brought forward ...	46	5	41	1	19	21
Sch. II, Chap. XII, Rule 6	Not furnishing names of keepers of registered building.	2	...	2	...	...	2
Do Rule 10 (e)	Refusing access to registered building for inspection.	21	...	21	...	8	13
Do Rule 10 (f)	Failure to keep the R.B. premises and Sanitary fittings, etc., clean.	15	...	16	...	8	8
Do Rule 10 (g)	Overcrowding in registered building ...	1,150	3	1,147	1	237	909
Do Rule 13	Failure to do repairs, etc., to registered building under R.B. Rules.	2	...	2	...	1	1
Sch. II, Chap. XIII ...	Keeping animals in contravention of rules.	13	...	13	...	6	7
Sch. II, Chap. XV ...	Breach of market rules ...	...	...	...	...	...	...
Sch. II, Chap. XVI ...	Breach of rules respecting condensed milk.	...	...	...	...	...	...
Do Chap. XVII ...	Breach of rules relating to the manufacture and sale of articles of food, drink and the supervision of public eating-houses, food stalls, tea-shops and places where sweets, etc., are sold.	90	11	79	...	48	31
Milk bye-laws (Sec. 102, B. M. Act, 1898)	Sale of milk in contravention of bye-laws.	...	...	...	...	...	...
Bye-laws for aerated water, Ice cream, etc. (Sec. 102, B. M. Act, 1898.)	Sale of aerated water, Ice cream, etc., without license	...	...	...	...	...	...
Sec. 132	Sale of diseased animals or unwholesome articles intended for human food.	...	...	...	...	...	...
Ghee Act	Adulteration of ghee or refusing ghee sample for analysis.	3	...	3	...	1	2
Sec. 123	Using premises as a workshop without permission of the Corporation.	1	...	1	...	...	1
Sec. 124	Storing or keeping articles prescribed as dangerous and offensive.	...	...	...	...	...	...
Total	...	1,344	19	1,325	2	328	995

*Fines imposed under the Ghee Act and the Different Sections of the City of during the year 1931.*

DIVISION.		EAST SUBURBAN DIVISION.								
Amount of		No. of prosecutions.	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.	Amount of		
Fines imposed.	Cost awarded.							Rs.	Rs.	
231	21	92	22	70	1	36	33	221	33	
20	2	...	...	...	...	...	...	...	...	
62	13	13	...	13	...	8	5	17	5	
23	8	18	...	18	...	10	8	24	8	
5,375	909	169	1	168	...	51	117	643	117	
5	1	5	...	5	...	...	5	15	5	
31	7	129	6	123	...	36	87	431	87	
...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	
300	31	83	10	73	...	53	20	185	20	
...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	
35	...	1	...	1	...	...	1	20	...	
25	1	...	...	...	...	...	...	...	...	
...	...	1	...	1	...	...	1	10	1	
6,107	993	511	39	472	1	194	277	1,566	276	

**Table No. 3—Showing number of cases prosecuted and amount of Rangoon Municipal Act, 1922,**

WEST TOWN DIVISION.							WEST SUBUREAN DIVISION.								
No. of prosecutions.	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.	Amount of Fines imposed. Rs.	Cost awarded. Rs.	No. of prosecutions.	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.	Amount of Fines imposed. Rs.	Cost awarded. Rs.
84	16	68	...	23	45	436	45	116	25	91	...	29	62	582	62
9	1	8	...	3	5	33	5	13	4	9	...	4	5	40	5
60	3	57	...	28	29	138	29	...	...	...	...	...	...	...	...
2	...	2	...	1	1	5	1	...	...	...	...	...	...	...	...
896	3	893	1	306	586	4,083	586	40	1	39	...	15	24	122	24
2	1	1	...	...	1	3	1	3	1	2	...	...	2	30	2
...	...	...	...	...	...	...	...	141	1	140	...	56	84	483	84
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
83	7	76	...	52	24	230	24	31	5	26	...	13	13	90	13
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	1	4	...	2	2	60	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1,141	32	1,109	1	415	693	4,988	691	344	37	307	...	117	120	1,347	190

*Fines imposed under the Ghee Act and the Different Sections of the City of during the year 1931.*

No. of prosecutions.	No. of cases withdrawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases convicted.	Amount of		REMARKS.
						Fines imposed.	Cost awarded.	
TOTAL.								
338	68	270	2	107	161	1470	161	
24	5	19	...	7	12	93	12	
54	3	91	...	44	47	217	47	
36	...	36	...	19	17	52	17	
2,255	8	2,247	2	699	1,636	10,223	1,636	
12	2	10	...	1	9	53	9	
283	7	276	...	98	178	945	178	
...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	
287	33	254	...	166	88	805	88	
...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	
9	1	8	...	3	5	115	...	
1	...	1	...	...	1	25	1	
1	...	1	...	...	1	10	1	
3,340	127	3,213	4	1,054	2,155	14,008	2,150	

*Summary of Inspections made by the Sanitary Inspectors and Sanitary Works completed during the year 1931.*

No. of Inspections,  
etc., by S.I.

**A.—Nature of Inspection or Premises visited : —**

1.	Dwelling houses excluding R.B. houses	...	...	43,017
2.	Milch cattle stables	...	...	1,442
3.	Other Stables	...	...	706
3.	Milk, Ice-cream and Sherbet shops	...	...	1,115
5.	Public Eating houses and Tea-shops, etc.	...	...	19,070
6.	R.B. houses { (a) Day	...	...	12,833
	{ (b) Night	...	...	3,090
7.	Markets, Cinemas and Schools—No. of visits	...	...	4,316
8.	Aerated Water Works	...	...	369
9.	Bakeries, Workshops and Factories	...	...	921
10.	Building works	...	...	1,346
11.	Drains and fittings	...	...	5,942
12.	Inspection of places where dangerous and offensive articles are stored	...	...	3,239
13.	Houses where epidemic diseases occurred	...	...	1,545
14.	Other Inspections and Inquiries	...	...	2,942
Total No. of Inspections				101,894

**B.—Works, etc., completed : —**

1.	Dwellings—				
	(a) Limewashed	...	...	...	2,187
	(b) Kitchen floors repaired	...	...	...	1,373
	(c) W. Cs. repaired	...	...	...	887
	(d) New W. Cs. provided	...	...	...	210
	(e) Water storage tanks cleaned	...	...	...	21,232
2.	Stables—				
	(a) Paved and drained	...	...	...	286
	(b) Cleaned and refuse removed	...	...	...	786
3.	Markets, Theatres and Schools—				
	Sanitary requirements carried out	...	...	...	128
4.	Dangerous and Offensive Trades—				
	(a) Licenses issued	...	...	...	970
	(b) Licenses cancelled	...	...	...	...
5.	Milk, Ice and Aerated Water, Sherbet and Ice-cream shops—				
	(a) Licenses issued	...	...	...	126
	(b) Licenses cancelled	...	...	...	...
6.	Public Eating houses and Tea-shops, etc.—				
	(a) Licenses issued	...	...	...	1,236
	(b) Licenses cancelled	...	...	...	...

**B.—Works etc., completed—concl.**

7.	Factories and Workshops—						
	Linewashing, etc., carried out	...	...	...	...	...	44
8.	Repairs, etc., done through Corporation Plumbers		...	...	...	...	312
9.	No. of cases of accumulation of refuge, rank vegetation, etc., removed	...	...	...	...	...	3,969
10.	Latrine tubs provided	...	...	...	...	...	1,000
11.	Blockages removed	...	...	...	...	...	31,369
12.	Other works completed	...	...	...	...	...	1,471
Total Sanitary works completed						...	67,596

*List of articles of unwholesome food and drink destroyed during the year 1931  
as compared with that of the previous year.*

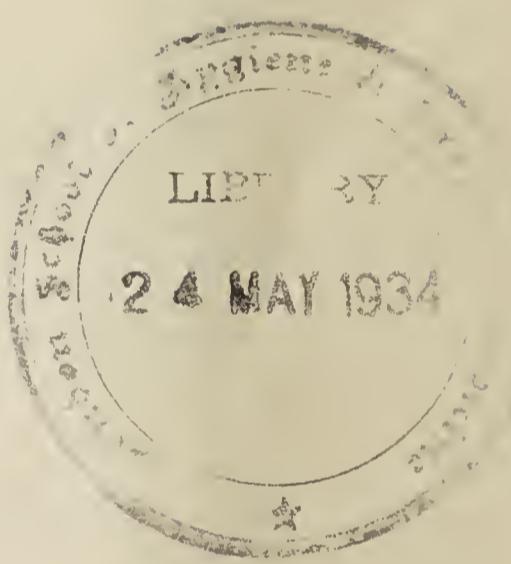
	1930.	1931.
Milk	... 735 viss.	584½ viss.
Butter	... 673½ lbs. and 4 viss.	8½ lbs. and 2 tins
Cheese	... 40 lbs.	269 lbs.
Curd	... 2½ lbs.	1½ lbs.
Aerated Water	... 265 bottles.	888 bottles.
Fish (fresh)	Syrup ... 861 7/12 viss.	8 bottles. 988½ viss.
Fish (dry)	... 11½ viss.	8½ viss and ¼ bag.
Fish (tinned)	... 2,221 tins	599 tins.
Meat (fresh)	... 68½ viss and 3 lbs.	71¾ viss and 5 lbs.
Meat (dry)	... ...	72 viss.
Eggs	... 477 in No.	818 in No.
Potatoes	... 309½ viss.	324 viss.
Onions	... 336 viss.	334 viss.
Garlic	... 6½ viss.	6½ viss.
Ginger	... ...	½ viss.
Grain	... 246 tins and 10 viss.	12 viss and 8 bags
Vegetables	... 1,025 viss.	745½ viss.
Fruits (fresh)	... 16,042 in No.	16,456 in No.
Fruits (dry)	... 12 cases, 2 viss and 9 in No.	60 in No.
Preserved fruits	... 72 tins 9 in No.	4,473 tins.
Condensed Milk	... 45 tins.	271 tins.
Cakes	... ...	3 lbs.
Cocoa	... 13 lbs.	... 113½ lbs. and 4 tins
Biscuits	... 50 tins and 60½ lbs.	185½ lbs. and 1 viss.
Bread	... 237 lbs and 1 viss.	27 lbs.
Chocolate	... ...	2 tins.
Patent Food	... 50 tins and 2½ viss.	42½ viss.
Indian Sweetmeat	... 76 viss.	1 leg.
Ham	... 7 lbs. and 9 pieces	200 in No.
Cocoanuts	... 2 in No.	2 baskets.
Tamarind	... ...	42 bottles.
Sausages	... ...	42 bags and 210 viss.
Chillies	... ...	8 tins.
Coffee	... ...	64 bags and 17 quarter lb tins.
Tea	... ...	12 packets.
Cowshwe	... ...	1 tin and 1 bundle.
Kyazun	... ...	

*On request from various Firms:—*

Tinned Milk	... 25 438 tins 12 cases.
Sterilized Milk	... 34 tins.
Condensed Milk	... 328 tins.
Momilk	... 2 cases and 13 tins.
Cream	... 32½ tins,
Cheese	... 638 tins, 9 cases, 8 balls, 5 pieces and 1 cake.
Butter	... 2 cases and 92 tins.
Cocoa	... 1,032 tins, 4 bottles and 2 cases.
Chocolates	... 1 case, 72 packets, 74 boxes, 5 blocks, 798 tins, 527 slabs, 23 rolls, 400 tablets and 115 bars.
Patent Food	... 932 tins, 13 cases and 131 bottles.
Lactol	... 1 case and 2 tins.
Windham Corn	... 16 cases.
Oats	... 302 tins and 6 cases.
Cakes	... 25 tins.
Macaroni	... 7 cases and 1 tin.
Vermicelli	... 1 case and 248 tins.
Corn flour	... 1 basket and 78 tins.
Sweets	... 62 cases, 10 baskets, 10 bottles and 28 tins.
Coffee	... 4 cases and 6 tins.
Toffee	... 10 tins and 10 packets.
Jelly	... 1 case and 1 bottle.
Cubes	... 2 cases.
Sugar	... 70 tins.

*On request from various Firms :—contd.*

Syrup	...	7 cases, 236 bottles and 21 baskets.
Marmalade	...	415 tins.
Jam	...	512 tins, 25 baskets and 354 bottles.
Pastilles	...	2 tins.
Puddings	...	183 tins
Biscuits	...	1 case and 401 tins.
Custard Powder	...	14 tins.
Raisins	...	4 cases and 44 tins.
Lemon Squash	...	8 cases and 98 bottles.
Orange Squash	...	9 bottles.
Sauce	...	3 cases and 36 bottles.
Fruits	...	1,188 tins, 334 cases, 329 bottles and 10 baskets.
Baking Powder	...	1 case and 14 tins.
Pickles	...	450 bottles and 1 case.
Margot	...	12 tins.
Rodeo	...	9 tins.
Cod Liver Oil	...	6 dozen bottles and 1 case.
Oil	...	52 bottles.
Peas	...	5 cases, 8 dozen tins and 113 bottles.
Mustard	...	1 case.
Walnuts	...	11 bottles.
Asparagus	...	15 tins.
Tomato Ketchup	...	29 bottles.
Lettuce	...	1 case.
Sage and Onions	...	41 tins.
Preserved Onions	...	1 bottle.
Cabbage	...	66 tins.
Mintips	...	6 tins.
Mutton and Vegetable	...	2 tins.
Instant Postum	...	12 cases.
“Clet	...	5 cases.
Morton's Salad Dressing	...	7 dozen and 1 bottle
Mushroom	...	1 case and 24 tins.
Ham	...	64½ lbs., 4 legs, 3 tins and 1 case.
Bacon	...	65 lbs.
Sausages	...	259 tins, 37½ lbs. 2 cases.
Potted Meat	...	7 cases, 9 bottles and 98 tins.
Corned Beef	...	2 dozen tins.
Turkey Tongue	...	20 tins.
Lunch Tongue	...	½ dozen tins.
Fat Liver Patty	...	13 tins.
Bloaters	...	36 tins, 34 bottles and 2 cases.
Relish	...	3 bottles.
Fish Paste	...	24 bottles.
Fresh Oysters	...	30 bottles.
Sole	...	1 bag and 106 lbs.
Haddock fish	...	24 cases and 112 lbs.
Cod Fish	...	60 lbs.
Herrings	...	1 case and 120 lbs.
Lobsters	...	1 case and 3 dozen tins.
Prawns	...	1 tin (5 lbs.).
Salmon	...	1 case and 97 tins,
Sardines	...	3,563 tins, 17 baskets and 36 cases.
Miscellaneous Foodstuffs	...	3 lorry loads, 168 baskets, 46 bottles, 606 tins and 1 case.



BB



24 MAY 1934